

2024 Product Catalog



## **Featured Suppliers**

























Visit **fisheredu.com/featuredsuppliers** to learn more about these suppliers and their products.

## Helpful Icons



New product



Must be shipped by truck for regulatory reasons



Meets Americans with Disabilities Act requirements



Protects against splashes from hazardous chemicals or potentially infectious materials



Applicable for remote learning



Defined as a medical device by the FDA

### Guarantee

If you're not 100% satisfied with your purchase, contact our customer service team within 30 days of your invoice date and we'll either exchange, repair, or replace the product, or give you a credit for the full purchase price. Call us toll-free for a return authorization number.

Special order items, furniture, and closeouts cannot be exchanged or credited.

Phone: **1-800-955-1177** • 7 a.m. to 5:30 p.m.

Central Time, Monday through Friday

Fax: 1-800-955-0740 • 24 hours a day, 7 days a week

Email: fse.custserv@thermofisher.com

Website: fisheredu.com

Address: Fisher Science Education

4500 Turnberry Drive Hanover Park, IL 60133

For international orders, see page 126.

Products featured in this catalog may have limited availability and extended lead times. Prices are subject to change.

### Connect with Us on Social Media





# STEM/CTE

Preparing today's students to be the innovators of tomorrow isn't always easy, but finding the right teaching tools can be. From basic lab supplies to state-of-the-art classroom technology, the Fisher Science Education team has everything you need to create a 21st century STEM learning environment.

Visit **fisheredu.com** to get started.

### Want to customize aspects of your curriculum?

Explore custom kits to meet the unique demands of your classroom. Visit **fisheredu.com/customkitting** to learn more.

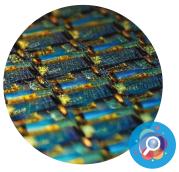
### Concerned about shipping and handling fees?

We offer \$12 flat-rate shipping on most orders and our hazardous material fee is just \$15 — the lowest in the country.

### Looking for Something Else?

Check out our other 2024 catalogs:

- Chemicals
- · Lab furniture and equipment
- Lab supplies and consumables
- Life sciences
- Physical science
- Safety



Although you've probably never seen a silicon wafer, you likely own many of them, as they are crucial to manufacturing the semiconductors that power various electronic devices such as smartphones, game consoles, cars, and more.

Visit **fisheredu.com/headlinediscoveries** for more articles and information for your classroom.

**STEM (Science, Technology, Engineering, and Math)** is an interdisciplinary approach to teaching that encourages problem-solving skills and emphasizes the application of knowledge to real-world situations. This initiative aims to make the U.S. globally competitive by increasing the number of students who enter and succeed in STEM-related fields.

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Visit **fisheredu.com/stem** to view our full offering of products.





Innovative Hands-on Instructional Products for Integrating STEM in Every Subject

## **EARTH & SPACE SCIENCE**

SUN, EARTH & MOON ORBITAL MODEL • \$12895

Interactive, Gear-Driven Model with Illuminated Sun for Demonstrating Eclipses





## **CHEMISTRY**

ORGANIC MOLECULAR MODEL SET • \$96539

114-Piece Chemistry Molecular Model Set for Building Organic Molecules

## LIFE SCIENCE & HEALTH

**SUTURE PRACTICE KIT · \$27477** 

Realistic, Physician-Designed Suture Pad with All Materials for Practicing Suturing Skills





## **PHYSICS & ENGINEERING**

GARAGE PHYSICS CATAPULT KIT • \$24329 —

Explore Force & Motion by Building a Fully-Functional Medieval Catapult

fishersci.com/eisco

## **NEW** Featured Products





### Create Fall Colors in Class

Enrich lessons in dendrology with an artistic activity that lets students color leaves with liquid watercolor paint or food coloring.

Description	Cat. No.	Price
Color Diffusing Paper Leaves, Pack 80	S13201	\$10.50





### **Practice Nursing Skills**

Help students improve competency in patient care and advanced nursing skills with positionable, adult-sized, lifelike manikins.

Description	Cat. No.	Price
Nikki the Nursing Manikin with Auscultation	S58101	\$8,587.00
Patient Care Manikin Basic	S58100	\$3,538.00



### Simulate Blood Pressure Measurement

Train aspiring healthcare professionals on manual blood pressure measurement skills with a simulated sphygmomanometer that includes features for added realism.

Description	Cat. No.	Price
SimBP Simulator for Blood Pressure Training	S58112	\$3,780.00





### **Express Compounds Visually**

Create colorful, oversized molecular structures to help young scientists gain a better understanding of chemistry.

Description	Cat. No.	Price
Inorganic and Organic Chemistry Molecular Model Kit, 240 Pieces	S139056	\$35.00





### **Replicate Lung Function**

Demonstrate how lungs work during respiration and examine the factors that affect lung capacity.

Description	Cat. No.	Price
Eisco™ Manual Spirometry Lung Volume Kit and Replacement Parts	S15103	\$72.00

### **Learning Loss & Remote Learning**

### **Learning Loss**

## Plate Tectonics Flip Chart with Online Multimedia Lesson

### This multimedia kit can help students master key earth sciences concepts.

- Provides graphical instruction and write-on/ wipe-off activities with one-year online access to a corresponding multimedia lesson featuring in-depth, interactive coverage of the concept
- The multimedia lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices
- Flip Chart Set features 10 laminated, double-sided charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/ wipe-off activities for review and reinforcement
- Includes a teacher's guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the flip chart sets are ideal for small group instruction, learning centers, independent use or classroom reference

- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features animated, narrated tutorials; interactive exercises and activities; virtual lab investigations; illustrated, narrated glossary; visual resource library; and an inquiry-based student activity guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any interactive whiteboard

Covers: Earth's Interior; Heat Transfer & Convection Currents; Continental Drift; Sea-Floor Spreading; Theory of Plate Tectonics; Plate Tectonic Boundaries; Changes in Earth's Surface; Volcanoes & Plate Boundaries; and Earthquakes & Plate Boundaries



### Sun-Earth-Moon Flip Charts with Online Multimedia Lesson

### This multimedia kit can help students master key earth science concepts.

- Provides graphical instruction and write-on/ wipe-off activities with one-year online access to a corresponding multimedia lesson featuring in-depth, interactive coverage of the concept
- The multimedia lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices
- Flip chart set features 10 laminated, double-sided charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/ wipe-off activities for review and reinforcement
- Includes a teacher's guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the flip chart sets are ideal for small group instruction, learning centers, independent use or classroom reference

- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features animated, narrated tutorials; interactive exercises and activities; virtual lab investigations; illustrated, narrated glossary; visual resource library; and an inquiry-based student activity guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any interactive whiteboard

**Covers:** How the Earth Moves; Earth's Hemispheres; Seasons on Earth; Gravity and Motion; Earth's Moon; Phases of the Moon; Eclipses; Tides; and Missions to the Moon

Cat. No.	Grades	Price
S81125	6 to 10	\$63.75/Ea





# **Ecosystems, Food Chains and Food Learning Center**

Engaging, ready-to-use learning centers for review of standards-based science skills.

- For learning essential grade-appropriate science skills
- Designed for teacher-directed instruction or independent student group learning
- Materials sufficient for up to four students
- Allows for use in classroom, after-school programs, or at home
- Four visual learning guides focused on same topic
- Packed in zippered storage pouch
- For Grades 6, 7, 8, High School

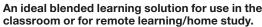
## Includes one Curriculum Mastery Game featuring:

- One set of 30 illustrated self-checking question cards
- One laminated double-sided game board and game pieces for up to 4 players



Cat. No.	Grades	Price
S24139	6 to High School	\$40.75/Ea

## All About Cells Student Learning Guide with Online Lesson



- Colorfully-illustrated student learning guide provides 36 pages featuring self-directed readings easy-to-follow illustrated explanations guiding questions a lab investigation key vocabulary review and assessments
- Also includes one year access to a corresponding multimedia lesson for a teacher and all their students. Each lesson features animated narrated tutorials interactive exercises and activities virtual lab investigations illustrated narrated glossary visual resource library and an inquiry-based student activity quide.

 Developed under sponsorship of the National Institutes of Health (NIH) the lessons are perfect for individual student instruction on any computer or tablet as well as classroom presentation on any interactive whiteboard

Covers: Discovering Cells, Animal and Plant Cell Organelles, Cell Energy Photosynthesis, Comparing Plant and Animal Cells, Organization of Cells, Specialized Cells, and Single-Cell Organisms



Cat. No.	Grades	Price
S436007	6 to 10	\$26.75/Ea

### Simple Animal Cell 3D Model Kit

Assemble and use 3D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures and processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to
- engage, explore, explain, extend and evaluate their understanding of key scientific concepts
- Satisfies NGSS Standards which encourage students to develop and use models to represent structures, systems and processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



A-1 N-	Overland	D.C.
Cat. No.	Grades	Price
S81461	6 to 10	\$46.50/Ea



## **Science Visual Learning Guides**

Use visual learning methods to improve student performance.

Laminated "write-on/wipe-off" guides cover 10 key topics per set and help your students make connections, understand relationships and recall related details using visual learning processes.

### Each 11 x 17 in. guide includes four panels:

- Panel 1 features an illustrated overview of concept
- Panel 2 includes labeling and review exercises
- Panel 3 presents graphic organizer of topic
- Panel 4 provides assessment and review questions

### Life Science Grades 5 to 9 (S01885):

Photosynthesis, Mitosis/Meiosis, Genetics, Osmosis/Diffusion, and more

### Physical Science Grades 5 to 9 (S01887):

Work and Machines, Forces and Motion, Periodic Table, Chemical Reactions, and more

## Human Body Grades 6 to 10 (S01895):

Bones, Muscles & Skin, The Digestive System, Nutrition, The Circulatory System, The Immune System, The Respiratory System, and more



Cat. No.	Subject	Grades	Price
S01885	Biology - Life Science	5 to 9	\$49.75/Ea
S01887	Physical Science	5 to 9	\$49.75/Ea
S01895	Human Body	6 to 10	\$49.75/Ea

# Online Learning Program – 1 Year Class License (1 Teacher/150 Students)

Use interactive, multimedia lessons and innovative teaching tools to engage students through differentiated instruction.

- Research-based and classroom-tested
- · Innovative and easy to use
- Includes everything needed to provide students with interactive lessons meeting the current state and national standards, including NGSS
- Engages students and improves their learning through differentiated instruction
- Allows students to learn anywhere, anytime, on any device (including tablets and Chromebooks)
- Can also be used on interactive whiteboards for classroom instruction
- Includes the following: click-and-play lessons, narrated multimedia science lessons with interactive exercises, virtual lab investigations, vocabulary, quizzes, and more
- The program also includes: easy-to-use tools and templates to create and deliver custom lessons to meet individual class and student needs, a unique learning management system to track and analyze student performance, and cloud-based storage to save lessons for a future semester or share them with colleagues



Cat. No.	Grades	Price
S98490	K to 14	\$211.00/Ea

# **Stay Connected with the**Fisher Science Education Team

### Follow us on













## **Summer Bridge Activities**™

Summer Bridge Activities are a distinguished series that engages children's creativity and learning potential. Prevent summer learning loss and prepare your child for back-to-school success in just 15 minutes a day.

**How It Works:** Each page is numbered by day so kids and parents can track progress and reach monthly learning goals. Each activity features clear, step-by-step instructions and practice pages to help sharpen students' skills for the school year ahead.

**Just 15 Minutes A Day:** Two months of learning loss occurs during the summer, with the highest losses being in math and spelling. This activity book is designed to prevent summer brain drain in just 15 minutes per day through engaging activities.

Why Summer Bridge: Award-winning Summer Bridge Activities™ engage children's creativity and learning potential and keep kids mentally and physically active to prevent summer learning loss and pave the way for a successful new school year ahead.

## Workbooks cover grades Pre-K through 8. Each workbook includes:

• 160 pages, about 8 inches x 10½ inches

- Activities for 60+ days
- Social studies, science experiments and fitness activities for all levels
- Flash cards, answer keys and completion certificates
- Other lessons and activities appropriate for the students' age and learning level (as listed below)

**K to 1 (S81807), ages 5-6.** Reading comprehension, handwriting, and counting, with reward stickers

2 to 3 (S81809), ages 7-8. Parts of speech, number patterns, counting money

6 to 7 (\$81813), ages 11-12. Writing skills, root words, factors, graphing, dictionary skills 7 to 8 (\$81814), ages 13 13. Grapman reading

7 to 8 (S81814), ages 12-13. Grammar, reading passages, graphing, dictionary skills, geometry

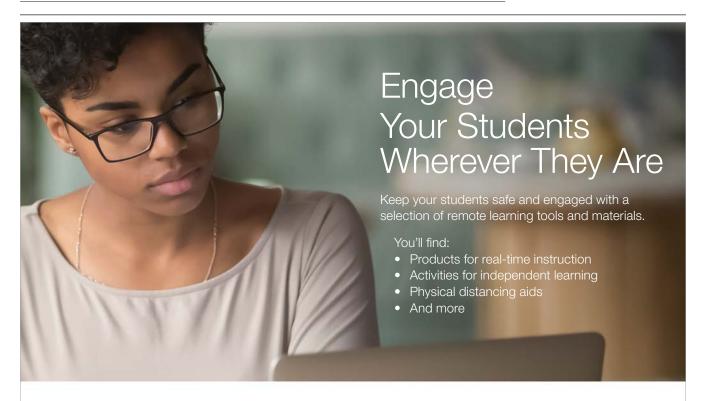








Cat. No.	Grades	Price
S81807	K to 1	\$13.25/Ea
S81809	2 to 3	\$13.25/Ea
S81813	6 to 7	\$13.25/Ea
S81814	7 to 8	\$13.25/Ea



Visit fisheredu.com/remotelearning to learn more.





## Summer Bridge Essentials<sup>™</sup> Backpack

Prevent summer learning loss and prepare your child for back-to-school success with fun activities, engaging children's books, exercises, interactive games, and more-all in one bundle.

**Preventing Learning Loss:** Two months of learning loss occurs during the summer, with the highest losses being in math and spelling. This bundle is designed to prevent summer brain drain through engaging, hands-on activities.

**How It Works:** Use the User Guide to increase family engagement, and flash cards for added practice. Track daily progress and reach monthly learning goals in the workbook. Check answers with the answer key and reward kids with motivational stickers.

Why Summer Bridge: Award-winning Summer Bridge Activities™ engage children's creativity and learning potential and keep kids mentally and physically active to prevent summer learning loss and pave the way for a successful new school year ahead.

## Seven bundles cover grades Pre-K through 6. Bundles include:

- All-subject activity workbook with stickers and completion certificate
- Activities for 60+ days
- Topics include reading, writing, math, social studies, science and fitness (age appropriate)

















fiction)Drawstring bag and user guide

· Four books (two

nonfiction and two

 Flash cards appropriate for the students' age and learning level (as listed below)

**Pre-K to K (S81815), ages 4-5.** Flash cards teach phonics and pronunciation

**K to 1 (S81816), ages 5-6.** Flash cards for words build student's vocabulary and spelling skills

1 to 2 (S81817), ages 6-7. Flash cards aid in building student's addition skills

2 to 3 (S81818), ages 7-8. Flash cards help to teach subtraction principles

**3 to 4 (S81819), ages 8-9.** Flash cards for learning multiplication

4 to 5 (S81820), ages 9-10. Flash cards for learning division

**5 to 6 (\$81821), ages 10-11.** Flash cards for enhancing division skills

Cat. No.	Grades	Price
S81815	Pre-K to K	\$36.50/Ea
S81816	K to 1	\$36.50/Ea
S81817	1 to 2	\$36.50/Ea
S81818	2 to 3	\$36.50/Ea
S81819	3 to 4	\$36.50/Ea
S81820	4 to 5	\$36.50/Ea
S81821	5 to 6	\$36.50/Ea

## Starry Night Astronomy Lessons

### Lessons are correlated to state standards and the NGSS.

- Up to 35 student logins and 1 instructor per license
- 8 Lesson plans joined to exercises and hundreds of simulations, animations and images
- Teachable Moments feature keeps content fresh and relevant
- Accurate visualizations allow students to make precise observations of moon phases, motions of the sun and planets, seasons, eclipses and much more
- Interactive exercises and hands-on activities encourage questioning, experimentation and exploration, and accommodate diverse learning styles

- Pre- and post-assessment resources with recommendations for improved student performance
- Flexible teaching models for easy adaptation to pacing and classroom needs
- Opportunities to develop key skills: observation, data collection, analytical thinking and discovery
- Extensions that connect to history and literacy
- Access for the entire classroom, teachers and staff
- Includes digital teacher's guide with helpful how-to's and support resources
- Runs in the browser using a standard Internet connection
- Chromebook<sup>™</sup>, iPad<sup>™</sup>, Android<sup>™</sup>, Windows<sup>™</sup>, and Mac<sup>™</sup> compatible

Cat. No.	Grades	Price
S80708	9 to 12	\$514.00/Ea





# StarSense Explorer<sup>™</sup> Smartphone App-Enabled Telescopes

### Compatible with most modern smartphones.

Celestron has reinvented the manual telescope with StarSense Explorer"- the first telescope that uses your smartphone to analyze the night sky and calculate its position in real time. StarSense Explorer is ideal for beginners thanks to the app's user-friendly interface and detailed tutorials. It's like having your own personal tour guide of the night sky.

### Dock, Launch, Explore

Leave complicated star charts, imprecise planetarium apps, and computerized mounts behind. With StarSense Explorer, locating objects has never been easier, faster, or more accurate. Within minutes of setting up the telescope, you'll be navigating the sky with confidence. Simply place your phone in the unique StarSense dock and launch the StarSense Explorer app. After aligning your phone to the telescope's optics (a quick, 2-minute procedure), StarSense Explorer generates a list of celestial objects currently visible. Make your selection and arrows appear onscreen, guiding you as you to move the telescope. When the object is ready to view, the bullseye turns green.

### **Smartphone Compatibility**

StarSense Explorer™ works with most modern smartphones, including iPhone 6 and up and most devices running Android 7.1.2 or later manufactured since 2016. Compatibility will show when on home screen when app is launched.

## Patent-Pending StarSense Sky Recognition Technology

StarSense Explorer uses patent-pending technology and your smartphone to determine exactly where the telescope is pointed in the night sky. A Lost in Space Algorithm (LISA), like the ones satellites use in orbit to correctly reorient themselves, helps the app match star patterns it detects overhead to its internal database. While other astronomy apps may claim that they can help you find objects, they rely exclusively on the phone's gyros and accelerometers, which aren't as accurate as LISA technology. No other app can accurately tell you when your target is visible in the eyepiece.

### **Dazzling Views with High Quality Optics**

You can expect sharp, bright views through this 80 mm refractor. Fully-coated glass optics provide increased light transmission, enhancing details in celestial objects. The telescope also includes a

90-degree erect image diagonal, so you can use it during the day to view birds, wildlife, landscapes, and more.

### Perfect for the City or Dark Sky Sites

Even if you live in a light-polluted city location, StarSense Explorer<sup>™</sup> is advanced enough to be able to pick out Jupiter, Saturn, Venus, the Orion Nebula, double stars, and a few more of the most famous celestial objects. But if you can take the telescope to an even slightly



darker location, more objects will become visible. The entire telescope kit weighs just 9.2 pounds, so it's perfectly portable and easy to bring on your next camping trip, or to a remote observing site.

### **Everything You Need to Observe Immediately**

When you unbox your new StarSense Explorer™LT, you'll find:

- 80 mm refractor optical tube
- StarSense dock for your smartphone
- Low powered (25 mm) and high powered (10 mm) eyepiece
- 2x Barlow lens to double the power of each eyepiece
- 90-degree erect image diagonal
- StarPointer red dot finderscope, perfect for using the telescope during the day or without the StarSense Explorer app
- · Altazimuth mount with slow motion control rod
- Full-height tripod with an accessory tray to keep you organized

Cat. No.	Optical Design	Model	Price
S81338	Refractor	LT 80AZ	\$244.00/Ea
S81339	Newtonian Reflector	LT 114AZ	\$250.00/Ea
S81340	Refractor	DX 102AZ	\$506.00/Ea
S81341	Newtonian Reflector	DX 130AZ	\$511.00/Ea

Please see Safety & Security Catalog for Social Distancing Aids and Cleaning Supplies.



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### Remote Learning: Life Science

### Microslides™

### Each Microslide title consists of images photographed through a microscope.

Each Microslide title includes a slide featuring 8 related 35mm images photographed through a microscope called photomicrographs. Arrows and call outs help the student locate important features. Each Microslide is accompanied by a detailed lesson plan designed to stimulate, inform,

Cat. No.	Description	Price
S816700	Ultra Structure of Animal Cell	\$12.25/Ea
S816701	Cells of Your Body	\$12.25/Ea
S816702	Cells of Plants	\$12.25/Ea
S816703	Chick Embryo	\$12.25/Ea
S816704	Insect Parts	\$12.25/Ea
S816705	Helpful Bacteria	\$12.25/Ea
S816706	Harmful Bacteria	\$12.25/Ea
S816707	Animal Tissues-A Set	\$12.25/Ea
S816708	Animal Tissues-B Set	\$12.25/Ea
S816709	Animal Mitosis	\$12.25/Ea
S816710	Plant Mitosis	\$12.25/Ea
S816711	Cell Structure	\$12.25/Ea
S816712	Photosynthesis	\$12.25/Ea
S816713	Reproduction	\$12.25/Ea
S816714	Digestive System	\$12.25/Ea
S816715	Circulatory System	\$12.25/Ea
S816716	Central Nervous System	\$12.25/Ea

and question students about the topic under study. Each lesson plan has a pocket in which the Microslide is stored. When buying in sets of 15 you will receive a reproducible worksheet.

Cat. No.	Description	Price
S816717	Respiratory System	\$12.25/Ea
S816718	Micro Chromosomes and Genes in Action	\$12.25/Ea
S816719	Fern Life Cycle	\$12.25/Ea
S816720	Meiosis	\$12.25/Ea
S816721	Human Blood	\$12.25/Ea
S816722	Virus Set	\$12.25/Ea
S816728	Protozoa Set	\$12.25/Ea
S816732	The Kingdom Fungi Set	\$12.25/Ea
S816733	Marine Biology Set	\$12.25/Ea
S816734	Marine Plankton	\$12.25/Ea
S816735	Nerve and Muscle Action Set	\$12.25/Ea
S816736	Skeletal System	\$12.25/Ea
S816738	The Five Kingdom	\$12.25/Ea
S816739	Cancer	\$12.25/Ea
S816740	Cell Nucleus	\$12.25/Ea
S816741	Basic Human Histology	\$12.25/Ea



### Microslide<sup>™</sup> Viewer

This Microslide Viewer was specially designed for the Microslides as a companion to ensure the best viewing possible. Simply insert slide and focus; it is as simple as that. The white reflector provides sufficient light for a bright image in the normal light of a classroom.

- · Designed for use with Microslides
- · Easy to use
- · Quick focus
- Use indoor or outdoor

- No batteries required
- 9 in. tall
- · Lightweight



Butterfly Garden Hom

Cat. No.	Price
S816743	\$22.50/Ea

## Eisco<sup>™</sup> Human Skeleton Miniature Model With Stand

Miniature model for classrooms.

- Model gives general idea of bones
- · Mounted on stand
- Height: 51 cm (20 in.)

Cat. No.	Price
S15583	\$47.75/Ea



### Butterfly Garden<sup>™</sup> Homeschool Edition

Hands-on educational kit that explores the ever-changing life cycle of a butterfly.

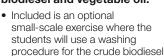
- Butterfly-growing kit provides weeks of STEM learning
- Ideal for both Home School and the classroom
- Designed to ensure the best possible viewing and learning experience
- Describes the 4 stages of metamorphosis and includes facts about each exciting stage

Cat. No.	Price
S81719	\$31.25/Ea



### Small Group Learning: Production Of Biodiesel

In this activity, students will perform a two-phase process to produce small batches of crude biodiesel. The crude biodiesel produced is of sufficient quality for use in the demonstration of the burning qualities of both biodiesel and vegetable oil.





- Students experience the full process of producing biodiesel to meet quality levels necessary for use in vehicles
- Kit contains enough material for 5 groups
- Teacher's Manual and student study guide copymasters are included
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: PS1.A; PS1.B
- Performance expectations: MS-PS1-2; MS-PS1-3; HS-PS1-2
- · Cross cutting concepts: patterns; structure and function
- Engineering practices: Analyzing and Interpreting Data; Obtaining, Evaluating and Communicating Information

 Cat. No.
 Price

 \$40756
 \$36.75/Ea

### Owl Pellet Kit

Teaches students the concepts of food webs and food chains, while identifying the small animals that are prey for the owls.



- Owls have a specialized digestive tract which helps them expel the indigestible parts of their prey in pellet form
- The pellets are heat-sterilized and individually wrapped
- **Kit Includes:** 5 owl pellets, 10 wooden probes, 5 forceps, 5 plastic rulers, 5 hand magnifiers, 20 nitrile gloves, teacher's manual and guide

 Cat. No.
 Price

 \$29558
 \$33.75/Fa

## Small Group Learning: Genetics Of Blood Types

Blood type, an inherited characteristic, has use in everything from forensic investigations to medical procedures. In this activity, students will learn about the genetics



that determine blood type, and the possible inheritance patterns and how they express themselves.

- Students will use simulated blood to determine the blood type of four unknown samples, and use their results to assist in the resolution of a fictional paternity dispute
- Kit contains materials for 5 groups
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: PS1.A; PS1.B; LS1.A; LS1.B; LS3.A; LS3.B
- Performance expectations: MS-PS1-2; MS-LS3-2; HS- LS3-1; HS- LS3-3
- Cross cutting concepts: structure and function; cause and effect; scale, proportion and quantity; science is a human endeavor
- Engineering practices: developing and using models; asking questions and defining problems; analyzing and interpreting data

**DISCLAIMERS:** Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

 Cat. No.
 Price

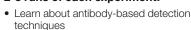
 \$40735
 \$24.25/Ea

## MyLab<sup>™</sup> Custom Kit – Simulation of COVID-19 Antibody Test



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Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.



- Perform an ELISA at home
- Understand current testing techniques for COVID-19 through a simulated experiment
- Includes: controls, antibodies, test strips, detection substrate, transfer pipettes

Cat. No.	Price
S06462	\$47.00/Ea



## MyLab™ Custom Kit -**Micropipetting Basics**



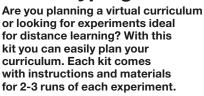
Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

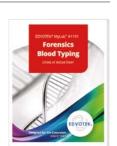


- · Learn the critical skill of micropipetting
- Hands-on pipetting practice
- · Understand the importance of micropipetting in science
- Includes: instructions, fixed volume micropipette, tips, dves, and pipetting sheet

Cat. No.	Price
S06463	\$43.00/Ea

## MyLab<sup>™</sup> Custom Kit - Forensics **Blood Typing**





- · Learn about basic forensic detection techniques
- Swab simulated crime scene samples to detect blood left at the scene
- Analyze the crime scene samples to determine suspect's blood type
- Understand presumptive versus confirmatory testing

Cat. No.	Price
S06464	\$42.75/Ea

## MyLab™ Custom Kit -**Building DNA With Beads**



Are vou planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

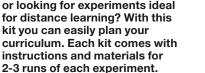
- Understand DNA base pairing
- · Model the structure of DNA
- Explore palindromes, restriction enzymes, DNA synthesis, and genetic engineering
- Includes: instructions, 75 colored beads

Cat. No.	Price
S06465	\$42.75/Ea

## MyLab™ Custom Kit -Spooling DNA on a Stick



Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for



- · Learn about living organisms and DNA
- Hands-on experiment using real DNA
- Spool DNA and visualize genetic material
- Includes: chromosomal DNA, spooling sticks, transfer pipettes,

Cat. No.	Price
S06466	\$42.75/Ea

## MyLab™ Custom Kit -**Extracting Fruit and** Vegetable DNA



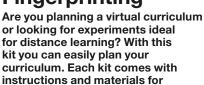
Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.



- · Learn about the basics of cells and DNA
- · Extract DNA from household fruits and vegetables
- · Spool DNA to visualize genetic material
- Includes: extraction buffer, test tubes, pipettes, and spooling stick

Cat. No.	Price
S06467	\$42.75/Ea

## MyLab™ Custom Kit -**Crime Scene DNA Fingerprinting**



2-3 runs of each experiment.

Forensic scientists use DNA fingerprinting to analyze crime scene DNA evidence and identify missing people. In this simulation of DNA fingerprinting, students will utilize paper chromatography to analyze the crime scene and suspect samples to identify 'whodunnit'.

- Explore DNA analysis and its forensic applications
- Learn about restriction enzymes, electrophoresis and chromatography
- Includes: instructions, simulated DNA samples, chromatography paper, buffer, pipettes

Cat. No.	Price
S06470	\$42.75/Ea



## MyLab™ Custom Kit -**Colorimetric DNA/ RNA Microarray**

Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.



Microarrays allows scientists to analyze gene expression of many samples in one assay.

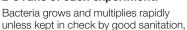
This technology has led to cost savings by reducing the sample size, while saving time and yielding accurate results. In this experiment, students explore the biology of cancer by looking at changes in gene expression in simulated patient samples.

- Explore the biology of cancer
- Learn about gene expression and regulation
- Perform a simulated microarray on four patient biopsies
- Includes: instructions, microarray card, patient samples, indicator dye, pipettes

Cat. No.	Price
S06471	\$42.75/Ea

## MyLab™ Custom Kit -How Do We Keep Our Food Safe?

Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

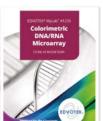


food safety, and personal hygiene. Many procedures are routinely used in food safety that include cooking, chilling, cleaning, and avoiding cross-contamination. In this experiment, milk will be used as a growth medium for bacteria. A blue dye will be added that turns colorless when bacteria grow in it. The impact of cooking, chilling, and cross-contamination will be tested to determine bacterial growth.

- Learn how biotechnologies and the 4Cs protect food from pathogenic bacteria
- · Explore how temperature affects bacteria growth
- Open-ended experiment lets students design and test additional
- Includes: indicator dye, pH paper, acetic acid, sodium bicarbonate, tubes, pipettes

Cat. No.	Price
S06472	\$42.75/Ea





## MyLab™ Custom Kit -**How is Substance Abuse Determined?**



How is

**Determined?** 

Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

In this simulation, students test patient samples for illicit substances that can be detected in urine. Examples of substance abuse to enhance muscle

mass for athletic performance are readily available. A second group of substances often result in addictive behavior that destroys the lives of individuals and family members.

- Learn how drug use alters the brain
- · Discuss drug abuse and addiction
- Test for the presence of drugs in a simulated sample
- Includes samples and controls, colorimetric reagents A and B, tubes, pipettes

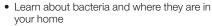
Cat. No.	Price
S06474	\$42.75/Ea

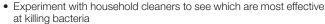
### MyLab™ Custom Kit -How Clean is Our Home **Environment?**



Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your

curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.





- Understand the relationship between bacteria and cleaning
- Includes: petri dishes, agar, filter paper, and transfer pipettes

Cat. No.	Price
S06469	\$42.75/Ea

Please see the Life Sciences catalog for a selection of living organisms, preserved specimens, and dissection supplies.



fisheredu.com

### Remote Learning: Physical Sciences

# **Distance Learning: Forensic Chemistry – Drug Detection**

Students work as forensic toxicologists to perform chemical tests in order to determine if all ingredients are what they should be.

### Objectives:

- Work as a forensic toxicologist to determine if someone tainted the cafeteria's chili
- Determine if any ingredients were substituted for aspirin (stolen form the nurse's office)
- · Perform chemical tests on cafeteria ingredients and control aspirin

#### Includes

- 4 g acetylsalicylic acid (control)
- 4 g corn starch
- 4 g salt
- 4 g sugar

- 4 mL sodium hydroxide, 1M
- 4 mL ferric nitrate, 0.2M
- 4 mL Lugol's iodine
- 4 mL deionized water
- 1 Pk. toothpicks
- 4 plastic scoops
- 2 microreaction plates
- Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08200	7 to 15	\$26.00/Ea

# Distance Learning: Forensic Chemistry of Blood Typing

Students determine the blood type of simulated samples from a crime scene and which suspect is involved in the crime.

#### Ohiectives

- Understand blood typing, antigens, and inheritance properties
- Determine the blood type of simulated blood samples collected at a crime scene
- Determine suspect involvement in the crime

### Includes:

- 4 simulated blood samples
- 3 mL victim
- 3 mL suspect no. 1
- 3 mL suspect no. 2
- 3 mL crime scene
- 1 set ABO/Rh blood typing anti-sera (3 mL of each)
- 8 blood typing trays
- 1 package of mixing sticks
- Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08199	7 to 15	\$25.50/Ea

### **Forensic Impressions Kit**

Students become CSI detectives as they identify, preserve and evaluate trace evidences at a crime scene.

- Students understand that footprints or shoe prints, tire tracks, or other impressions embedded in soft material serve as valuable class evidence for the crime scene investigator
- Includes six different labs, allowing students to identify and evaluate trace evidence and solve the scenario
- Class size: 24 students

Cat. No.	Grades	Price
S06741	8 to 12	\$459.00/Ea





### **Crime Scene**

## Students gather physical evidence to make factual interpretations of the scene.

Every crime scene contains pieces of evidence left by suspects and victims, and every person that enters a crime scene adds and carries away matter that can be used as evidence. Investigators document everything in a scene so that fact-based evidence can be presented in court

- Students work through six exercises using reasoning, common sense, math skills, biology and chemistry to document crime scenes
- Grades 5-8
- Class size: 24 students (six groups of four)

### Includes:

- Scene MappingHair Analysis
- Soil Analysis
- Rope Analysis
- Analysis of Scene Trash
- Police Evidence

Cat. No.	Price
S06742	\$368.00/Ea

## United Scientific<sup>™</sup> Protein Synthesis Manipulative Kit

Teach protein synthesis with hands-on manipulatives.

- Large, colorful models of DNA, mRNA, ribosomes, tRNA and amino acids
- Includes magnets to attach to the blackboard for a visual simulation of protein synthesis
- Smaller size models provide students with hands-on learning
- Activities include identifying the amino acid sequence resulting from a unique DNA sequence
- Includes downloadable teacher guide with suggested activities





## **Distance Learning: Acids and Bases**

An acid and base introduction unit, litmus paper tests.

### **Objectives:**

- Acid and base introduction
- · Test a dilute acid and dilute base with neutral litmus paper
- Learn how pH strips indicate if something is an acid or base
- Test common household items and determine if they are acids or bases

- 10 mL 0.01 M HCI
- 10 mL 0.01 M NaOH
- 10 mL distilled water
- 10 mL vinegar

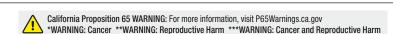
- 10 mL household ammonia
- 10 mL liquid hand soap
- 10 mL lemon juice
- 1 Pk. neutral litmus paper
- 2 spot platesInstruction manual and enough materials for two groups











## **Distance Learning: Elephant Toothpaste**

Teaches students the effects of a catalyst on a chemical reaction.

### **Objectives:**

- · Teach students the effect of a catalyst on a chemical reaction
- Displays decomposition of hydrogen peroxide by mixing dish soap and adding yeast (catalyst) to

### Includes:

50 mL hydrogen peroxide (3%)

7 to 15

- 6 mL dish soap
- · 2 g yeast

Cat. No. S08192

- 2 plastic cups, 5 oz.
- · 2 stir sticks
- 1 clear bottle, 8 oz.

Instruction manual and



\$11.50/Ea



## **Distance Learning: Paper** Chromatography

Students perform paper chromatography on three dyes, a dye mixture, and determine the mixture's composition.

- Perform paper chromatography on three dyes
- Perform paper chromatography on a dye mixture
- Determine mixture composition
- Understand component of a chromatography system and why different substances separate/move at different rates

### One dye set includes:

- 0.5 mL crystal violet
- 0.5 mL safranin O
- 0.5 mL toluidine blue
- 0.5 mL chromatography mixture
- 30 mL 50% ethanol
- 2 chromatography sheets



- 2 plastic cups, 10 oz.
- Instruction manual and enough materials for two groups

Cat. No. Grades	FIICE
<b>S08193</b> 7 to 15	\$17.50/Ea

## **Distance Learning: Acids,** Bases and the pH Scale

Discusses differences between properties of acids and bases, the role of hydrogen and hydroxide ions in acidic and basic substances, and the pH scale with regards to acid and base strength.

### **Objectives:**

- Examine effects of acids and bases on several pH indicators
- Determine pH of several common household materials
- · Use knowledge gained to determine the identity of four unknown solutions

- 5 mL deionized water
- 5 mL dilute acid (0.1 M HCl)
- 5 mL dilute base (0.1 M NaOH)
- 5 mL litmus blue (0.5%)
- 5 mL methyl red (0.02%)
- 5 mL bromothymol blue (0.5%)
- 5 mL phenolphthalein (1%)
- 5 mL vinegar

- 5 mL household ammonia
- 5 mL soap solution
- · 5 mL filtered water
- 5 mL vitamin C solution
- 5 mL unknown solution No. 1 (water)
- 5 mL unknown solution No. 2 (dilute base)



- 5 mL unknown solution No. 4 (dilute acid)
- 1 wide-range pH test strips (50 Pk.)
- 2 reaction trays
- · Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08194	7 to 15	\$30.25/Ea





# Distance Learning: Periodic Table – Nonmetals, Metals, and Metalloids

Students examine the physical properties of nonmetals, metals, and metalloids, as well as chemical reactivity.

Objectives:

- Learn about Dmitri Mendeleev's construction of the periodic table
- Periodic table organization is based on properties of elements in relation to others
- Examine physical properties of several elements and test chemical reactivity of elements
- Use knowledge to classify each tested element as nonmetal, metal, or metalloid

### Includes:

- 4 g aluminum pellets
- 4 g carbon pellets
- 4 g silicon pellets
- 4 g zinc pieces
- 4 g sulfur pieces
- + g sullul piccos
- 5 g sodium bicarbonate
- 6 copper pieces
- 6 magnesium pieces
- 20 mL hydrochloric acid 1 N
- 20 mL copper (II) chloride
- 14 test tubes
- · 4 pipettes







- 6 plastic cups, 5 oz.
- 1 plastic scoop
- Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08195	7 to 15	\$23.50/Ea

## **Distance Learning: DNA Extraction**

Discusses the history of DNA and its structure, as well as genetic inheritance.

### **Objectives:**

- Learn about DNA structure, history, and discovery and understand the role of DNA and proteins in genetic expression
- Use biological detergents, enzymes, and ethanol to isolate DNA from plant material

### Includes:

- 50 mL 7.5% SDS/ 1.5% NaCl
- 1 pepsin (to make 25 mL 0.5% solution)
- 10 mL ethanol, 95%
- 2 zipper bags
- 2 filters
- 2 plastic tubes
- · 4 graduated pipettes
- 2 stirrers
- 2 plastic cups
- Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08196	7 to 15	\$8.70/Ea

## Distance Learning: Kidneys and Blood Filtration

Understand kidneys and their role in blood filtration, and determine if blood filtration has occurred based on a simulation.

### Objectives:

- Understand the function of nephrons and their structure
- Create an artificial kidney model to filter a simulated blood solution
- Determine if filtration of simulated blood occurred
- Perform chemical tests on filtrate to detect waste that may have been removed by artificial kidney

- 10 mL simulated unfiltered blood
- 250 mL deionized water
- 2 pieces dialysis tubing
- 2 plastic cups
- 2 pipettes 4 salt test strips
- 4 urea test strips
- Instruction manual and enough materials for two groups







### Distance Learning: Forensic Chemistry of Unknown Substances

Students become forensic scientists to determine the identity of two mystery substances.

### Objective:

 Students perform the duties of forensic scientists to determine the identity of two mystery substances

### Includes:

- 4 g baking powder
- 4 g baking soda
- 4 g corn starch
- 4 g talcum powder
- 4 g salt

- 4 g gelatin
- 4 g mystery substance no. 1
- 4 g mystery substance no. 2
- 4 mL buret reagent
- 4 mL dilute Lugol's iodine
- 4 mL acetic acid
- 4 reaction plates
- 8 scoops
- Instruction manual and enough materials for two groups

Cat. No.	Grades	Price
S08198	7 to 15	\$36.25/Ea

## Distance Learning: Cellular Respiration – What Sugar Does Yeast Like Best

Allows students to understand yeast may use different options for energy production, with varying degrees of effectiveness.

### **Objectives:**

- · Expose living yeast cells to glucose, sucrose, and lactose
- Observe yeast using sugar as food source
- Allows students to understand yeast can use different options for energy production
- Use pH indicator to indirectly determine the effectiveness of each sugar

- 10 mL 0.5% litmus
- 1 g dehydrated yeast
- 5 mL 0.1M sodium hydroxide
- 1 glucose QuickSolution (to make 30 mL)
- 1 sucrose QuickSolution (to make 30 mL)
- 1 lactose QuickSolution (to make 30 mL)
- 6 plastic cups

- 2 plastic scoops
- 2 pipettes
- Instruction manual and enough materials for two groups



Cat. No.	Grades	Price
S08201	7 to 15	\$20.25/Ea

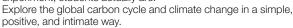


# MyLab<sup>™</sup> Custom Kit – Invisible Footprints

Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs

What would happen if each person was in charge of their own personal atmosphere? In this colorful experiment, students actually are!

of each experiment.



- · Learn about the carbon cycle and climate change
- Examine, calculate, and emit a carbon footprint, then see the effects
- · Create a positive carbon handprint and see its effects
- Includes instructions, atmosphere and CO<sub>2</sub> powder, color change solution, mitigation solution, tubes, pipettes

Cat. No.	Grades	Price
S06473	6 to 15	\$42.75/Ea

## United Scientific<sup>™</sup> Mini Weather Station

Introduce basic weather concepts with this versatile apparatus.

- Measure temperature (in Fahrenheit and Celsius) and wind speed, then reference the screen-printed chart to easily calculate wind chill
- The device freely rotates to indicate wind direction, and its removable rain gauge allows for the quick assessment of rainfall
- · The product is designed to mount on posts

Cat. No.	Grades	Price
S111030	6 to 12	\$11.50/Ea

# United Scientific<sup>™</sup> Sling Psychrometer

Use this simple apparatus to measure relative humidity.

- Includes two plastic-backed Celsius thermometers, one for dry bulb measurements and the other for wet bulb measurements
- The thermometers mount on a wooden handle so they can be spun to obtain temperature readings
- Includes an activity guide with relative humidity calculation table
- Requires assembly

Cat. No.	Grades	Price
S23981	5 +	\$6.35/Ea



Invisible

**Footprints** 

## MyLab<sup>™</sup> Custom Kit – Exploring Gel Filtration Chromatography



**Exploring Gel** 

Filtration

Chromatograph

Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With this kit you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

Introduce chromatographic separation to your students! In this experiment,

students separate dyes of different colors based on their size and shape. This experiment contains materials for dye separation which include dye sample, elution buffer and plastic disposables. Columns may be rinsed and reused.

- Understand and practice chromatography
- Explore how shape and size affect a molecule's behavior
- Separate colorful molecules using gel filtration chromatography
- Includes instructions, dye samples, matrix, buffer, pipettes, microtiter plate, chromatography column

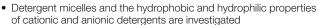
Cat. No.	Grades	Price
S06468	9 to 15	\$42.75/Ea

## **Shampoo Evaluation Kit**

Students examine different brands of shampoo and choose between products based on their own scientific and economic evaluations.



generation, foam retention and ink dispersion



- Students perform cost analysis on the shampoos
- Grades 8-12
- · Class size: 24 students

riangle ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Grades	Price
S25090	8 to 12	\$58.50/Ea



fisheredu.com

# Small Group Learning: Properties Of Soaps and Detergents

Though similar in function, soaps and detergents differ in chemistry and performance. Students will examine the similarities and differences



## in the properties of soap, hand dishwashing detergent, and machine dishwashing detergent.

- Activities include testing pH, examining the effect of soap and detergent on the surface tension of water, foaming ability, fat emulsification, and the performance of soap and detergent in hard water
- Kit contains enough materials for 5 groups
- Teacher's Manual and student study guide copymasters are included
- · Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: PS1.A; PS1.B
- Performance expectations: MS-PS1-3; HS-PS1-3
- · Cross cutting concepts: patterns; structure and function
- Engineering practices: planning and carrying out investigations; obtaining, evaluating and communicating information
- Includes: 10 mL Liquid Soap; 10 mL Dishwashing Detergent (Hand); 10 mL Dishwashing Detergent (Machine); 20 mL Vegetable Oil; 20 mL Calcium Chloride, 5% Solution; 20 Disposable Medicine Cups; 20 Polystyrene Test Tubes; 20 Capillary Tubes; 20 Graduated Plastic Pipettes; 1 Pkg/50 Universal Indicator Strips

**DISCLAIMERS:** Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

Cat. No.	Grades	Price
S40753	7 to 14	\$33.50/Ea

### Eisco<sup>™</sup> Molecular Model Kit

Introductory kit includes Includes 127 pieces neatly organized in a storage case. Perfect for educational activities and experiments.

- Combine the elements and bonds to create both simple and complex molecular structures with multiple elements, single and double covalent bonds
- Flexible links included for building more complex inorganic compounds

**Included in set:** instructional booklet, 9.25 x 6.75 x 1.5 in. storage case, short link removal tool, 60 atoms and 66 bonds

Elements included: 14 carbon, 8 oxygen (2 holes), 6 oxygen (1 hole), 22 hydrogen, 2 nitrogen, 1 sulphur, 6 halogen, 1 phosphorus

Links included: short, medium, long flexible

Cat. No.	Price
S13020	\$37.50/Ea

### Basic Organic Chemistry Molecular Model Set

Let students visualize three-dimensional molecule structures and understand molecular formulas.

- Hard plastic balls of different colors represent atoms
- Each has holes at correct angles to be connected with flexible plastic "bonds"
- Medium links represent single covalent bonds while long links can be used for double and triple covalent bonds

### 114-Piece Set (S96539) contains:

- 12 black carbon (4 holes)
- 20 white hydrogen (1 hole)
- 6 red oxygen (2 holes)
- 4 blue nitrogen (4 holes)
- 4 green halogen (1 hole)
- 2 yellow sulphur (6 holes; 1
- 1 purple phosphorus (4 holes)
- 1 gray metal (1 hole)
- 26 gray links (28 mm)
- 12 gray links (43 mm)
- 26 white links (28 mm)
- Assembly tool

### 54-Piece Set (S96538) contains:

- 14 white hydrogen (1 hole)
- 6 black carbon (4 holes)
- 2 blue nitrogen (4 holes)
- 6 red oxygen (2 holes)
- 2 green halogen (1 hole)
- 20 gray links (28 mm)
- 4 gray links (43 mm)

Cat. No.	Description	Price
S96538	54 pieces	\$45.00/Ea
S96539	114 pieces	\$60.00/Ea

## United Scientific™ Atomic Model Sets

Used to model different organic and inorganic compounds.

 Molded storage box with compartments keeps contents orderly



Cat. No.	Includes	Price
S90329B	Periodic table of the elements, 30 connecting lugs and 75 balls	\$47.25/Ea
S90329A	Periodic table, 150 connecting lugs, 370 colored balls and a compartmented storage box	\$133.00/Ea



## Eisco<sup>™</sup> Garage Physics Large Trebuchet DIY Kit

Kit engages the young learner to discover new ideas about the physical world through assembly and play.
Contains pre-cut wooden pieces that resemble woodworking projects.

 Medieval weapons, engineering, and physics

 not a bad way to spend a Saturday afternoon constructing this trebuchet



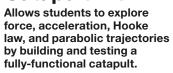
- The trebuchet will throw the ping pong ball (included) more than 30 feet, and heavier objects even farther
- The main material is high-quality, precision-cut Birch vernier pure bond plywood
- All necessary parts are included, and holes are pre-drilled
- The kit is specially designed to be safe and robust. Dry firings and heavy projectiles are no problems for this kit
- All that is needed for assembly is time, a screwdriver, a hammer, and fun. No glue, mess or fuss, just assembly, and experimentation

The trebuchet is one of the most elegant of all medieval weapons ever invented. With a simple counterweight, beam arm, and sling, heavier projectiles can be launched much further than is possible with other siege engines. Think of it as a machine which transforms gravitational potential energy into kinetic energy. A lot of kinetic energy! Arcing across your yard! We include a ping pong ball, but have experimented with marshmallows, jelly beans, bouncy balls and other safe objects. Two release pin angles allow exploration of how the release angle changes the trajectory. The included guide provides clear assembly instructions with pictures. It also contains pedagogy for exploring concepts of energy transfer using the scientific method.

WARRANTY: 1-year limited manufacturer warranty

Cat. No.	Price
S43526	\$107.00/Ea

## Eisco<sup>™</sup> Garage Physics Catapult Kit





- Designed for elementary through high school students
- Contains catapult base, sides, lever arm, rubber bands, screws, dowels, hook, and ping pong ball
- DIY kit includes adjustable parts to experiment with different initial conditions
- Instructions detail learning exercises and routes of further exploration
   WARRANTY: 1-year limited manufacturer warranty

Cat. No.	Price
S24329	\$52.25/Ea

### Eisco<sup>™</sup> Garage Physics Murlin Trebuchet Kit



By redirecting the pulling force of the counterweight with a pulley, the Garage Physics MURLIN Trebuchet kit is able to transfer much more energy to the projectile than the standard trebuchet.

- Includes the trebuchet, ping pong ball, and 1 kg counterweight
- Assembled kit throws the ping pong ball 30 feet or more
- Manufactured with high-quality, precision-cut Birch veneer pure bond plywood
- · A small Phillips screwdriver is required for assembly
- Kit comes with a step-by-step educational guide

**WARRANTY:** 1-year limited manufacturer warranty

Cat. No.	Price
S88359	\$129.00/Ea

## Eisco<sup>™</sup> Garage Physics Ballista Catapult Kit

Garage Physics Ballista Catapult Kit allows students to explore torsion springs, forces, energy transformation, mechanical advantage, and projectile motion.







- · Contains ballista and ping pong ball
- Birch plywood is formaldehyde-free using soy-based technology, LEED compliant, and CARB compliant
- Launches are highly repeatable, giving consistent experimental

**WARRANTY:** 1-year limited manufacturer warranty

Cat. No.	Price
S88360	\$142.00/Ea

## United Scientific™ Morse Code Experiment Kit

Designed to show the principle of a telegraph.



- The kit consists of a "D" cell battery holder, a telegraph key, a miniature lamp with holder, and three connector cords
- Instructions are included

Cat. No.	Price
S05815	\$16.75/Ea



## Eisco<sup>™</sup> Science Fair Kits – Film Canister Rockets

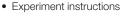
Launch a rocket using vinegar and Alka-Seltzer. The Film Canister Rocket Kit includes enough to build and launch your own rocket, and explore mass, measurement and simple chemical reactions.

- Simple project for fun, hands-on learning
- Combine the ingredients into the film canister and watch as the canister launches into the air
- Team up with your friends to see whose rocket can launch the highest
- · Safety goggles are required, not included

### Kit includes:

- · Two film canisters
- One 10 mL bottle of vinegar
- Two packs of Alka-Seltzer tablets (2 tablets per pack)





· Chemical safety sheet

 Cat. No.
 Price

 \$30768
 \$20.00/Ea

## Eisco<sup>™</sup> Science Fair Kits – Egg Drop

Design, document, and test their unique enclosures for an egg that will go through an industry standard drop test (egg not included).



• One 5 x 7 corrugated pad

· Two plastic bags

· Instruction guide

- Use the supplied materials to create a safe enclosure for an egg (egg not included)
- Explore physics concepts including drag, gravity, and impact
- Egg required, not included

### Kit includes:

- One roll of masking tape
- One 6 x 4 x 4 cardboard box
- Two foam sheets
- Two sheets of bubble wrap



## Eisco<sup>™</sup> Garage Physics Ball Bearing Roller Coaster Kit

Garage Physics Ball Bearing Roller Coaster Kit for students and educators studying gravitational potential energy, translational and rotational kinetic energy.



- Allows students to watch potential energy convert to kinetic energy
- Stick included hooks to the wall or other vertical surface, or use chairs and tables to support the track
- Create loop-de-loops, corkscrews and dives

**WARRANTY:** 1-year limited manufacturer warranty

Easy to assemble

### Kit Includes:

- · Educational guide
- 20-foot long (5/8 in. diameter)
   FDA-approved vinyl tube
- 9 removable wire hooks

### Required but not included:

- Scratch paper (US letter or A4 size is sufficient)
- Pair of scissors

- Twist ties and clipper
- 4 steel ball bearings (3/8 in. diameter)
- 3 rubbing alcohol pads
- Tape
- 2 tin cans per class (any size)

 Cat. No.
 Price

 S88361
 \$151.00/Ea

## Inertia Apparatus

## Known as ball and card mass force demonstrator.

- 0.75 in. (1.9 cm) ball rests on top of a small cardboard square that sits on an aluminum post
- Spring is positioned alongside the post
- When the spring is released the square shoots out from under the ball, and the ball falls into a recess on top of the post
- Ball appears to remain at rest on top of the post as if nothing has moved
- Size: 3 x 3 x 4 in. (7.6 x 7.6 x 10.2 cm)

Cat. No.	Price
S41011A	\$18.50/Ea



### Eisco<sup>™</sup> Build A DC Motor Kit

Classic activity used to teach crucial scientific and physics concepts.

- Contains everything needed to build a working DC motor and learn its parts from the inside out
- Wind your own armature and field coil, and build the commutator with two snap-together pieces

### Kit includes:

- Two copper wire coils
- Plastic base
- Field poles

Cat. No

S13013

- · Armature core
- Brushes and fasteners

).	Price
1	\$13.25/Ea

### United Scientific<sup>™</sup> Create-a-Circuit Kit

Handy kit makes it easy to create a circuit.

**Includes:** One D-cell battery holder, one knife switch, two miniature light bulbs, two lamp holders, four connector cords, instructions



### Eisco<sup>™</sup> Basic Circuits Kit

An inventive way to teach series-parallel circuits.

- Contains everything required to study series-parallel circuits and batteries
- Battery holders, knife switches and lamp holders feature clip or screw contacts for easy assembly and disassembly
- Includes: Single-pole, single-throw switch; five miniature lamps; two lamp sockets; two D batteries and battery holders; 10 ft. (3m) of wire

Cat. No.	Price
S63323A	\$34.50/Ea

### United Scientific<sup>™</sup> Solar Powered Car

Economical and attractive demonstration car model.

- Powered by a solar cell or a rechargeable battery
- Battery can be recharged from the solar cell, demonstrating an electricity storage system for solar power
- · Solar cell can be tilted to maximize the solar input
- Solar cell output can be measured at two binding posts
- Slide switch turns on/off and selects function
- · All working parts visible through clear molded housing

Cat. No.	Price
S02601	\$43.50/Ea



A convenient introduction to the conversion of solar light energy into electrical energy.

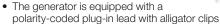


- Convenient kit provides everything needed to convert solar-generated electrical energy into light, sound,
- Observe the correlation between angle of incidence and energy output

Cat. No.	Price
S27844	\$10.50/Ea

### United Scientific<sup>™</sup> Hand-Held Generator

This 6V DC hand-held generator can deliver up to 400mA current.



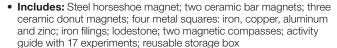
- The clear plastic housing allows students to watch the coils, terminals, and gears
- Students get a hands-on demonstration of the Second Law of Thermodynamics
- Includes activity guide

Cat. No.	Price
S23977	\$19.50/Ea

## United Scientific<sup>®</sup> Economy Magnet Kit

A complete magnet kit that will keep your students engaged for hours.





⚠ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Price
S65111	\$53.75/Ea





Phone 1-800-955-1177

# **Eisco™ Garage Physics Torque Demonstration Kit**

Designed to teach the concept of torque by moving a mass set down a rod while balancing the main rod.

· DIY assembly and activity kit

**Kit contains:** storage box, 1,000 g mass set, custom washer, 2 dowels, 2 bolts, 2 nuts, steel ball and instructions

**WARRANTY:** 1-year limited manufacturer warranty

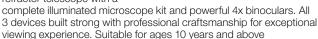


Cat. No.	Price
S24324	\$48.75/Ea

## Telescope, Microscope, and Binocular Science Kit

## Perfect for budding scientists.

This complete optical science kit combines a large 50 mm refractor telescope with a



### Telescope

- View the moon's craters, explore your favorite constellations, and see Saturn's rings
- Includes: a height adjustable tripod, a finderscope for easily lining up your sight, and two powerful eyepieces (5 mm, 10 mm)

### Microscope

- Magnifies up to 900x with additional powers of 150x and 450x
- Includes: blank and prepared slides, cover slips, blank labels, spatula, dissecting probe, eye dropper, tweezers, spare light bulbs, and specimen vials

### Binoculars

- Great for exploring the amazing landscapes, animals, and astonishing occurrences around us
- Feature: 4x magnification and a 30 mm coated glass ive lenses, 150x/450x/900x magnification (2 AA batteries required, not included)

Cat. No.	Price
S81330	\$72.50/Ea



## Kids Telescope Kit

Includes everything the budding astronomer needs to start observing.

- Up to 185x power!
- Telescope includes 30x eyepiece, 62.5x eyepiece, and a 3x Barlow lens



- Telescope can also be used for daytime land observing
- Plastic carry case included for storage and transport
- Includes metal table top tripod with rubber feet
- · CPSIA and ASTM F963-tested and compliant
- For ages 8+

Cat. No.	Price
S81333	\$61.25/Ea

## National Park Foundation Telescopes

Designed with travelers in mind, yet offer high-quality optical power.

### TravelScope<sup>™</sup> 60

- Designed with traveling in mind - offers high-quality performance at an exceptional value
- This refractor telescope is perfect for terrestrial and celestial viewing on the go
- Can view the planets, moon, star clusters and brighter deep sky objects like the Orion Nebula and Andromeda Galaxy at night
- Erect image star diagonal makes the optical tube ideal for using as a spotting scope during the day
- Adjustable tripod legs allow you to customize the telescope's height, or place it on raised surfaces like a picnic table

### FirstScope

- It doesn't get much simpler or more portable than the FirstScope's tabletop Dobsonian design
- The Newtonian reflector optical system features a spherical glass mirror with a generous 76 mm of aperture
- You'll get bright, sharp views of celestial objects and observe the Moon's mountains and craters in crisp detail
- Wide field of view allows for observation of the expansive views of the sky, which include open star clusters, or favorite deep sky objects like the Orion Nebula
- At just 4.3 lb. it is the perfect companion for any outdoor adventure

Cat. No.	Model	Price
S81328	Travel Scope <sup>™</sup> 60 Telescope	\$93.00/Ea
S81329	FirstScope Telescope	\$82.00/Ea



### **Kids Binoculars**

Binoculars have small form factor and are great for kids.

- 4x magnification brings the world closer
- · Glass objective lenses for a clear image
- · Coated lenses for a brighter view
- · Fun outdoor green color
- CPSIA and ASTM F963-tested
- For ages 6+



Stinger<sup>™</sup> Series Compact and Lightweight Roof **Prism Binoculars** 



Lightweight and compact for travel and backpacking.

- · Lightweight, compact
- Have fully multi-coated lenses which will allow for bright, sharp and crystal clear images
- · Include a soft pouch, wrist strap and microfiber lens cloth
- Can be used while camping, and for surveillance, nature viewing, bird watching, concerts, sporting events, hunting, safaris and so much more

### Sizes:

- 10x, 25 mm (S98180) offers greater magnification and better light transmission due to the wider objective lenses but a narrower field
- 8x, 22 mm (S81730) compact model with less magnification but a greater field of view

WARRANTY: Backed by manufacturer's no-fault, no-hassle warranty

Cat. No.	Description	Price
S98180	Stinger Series 10x, 25 mm Compact Binoculars	\$57.75/Ea
S81730	Stinger Series 8x, 22 mm Compact Binoculars	\$48.00/Ea

## **MonoZoom** 7 to 21x, 21 mm Zoom Monocular



Compact, portable and lightweight monocular, for traveling and exploration.

- Fully coated optics and BAK-4 prisms allow for bright, sharp and crystal clear image quality
- · Sturdy and durable outer housing shell
- · Smooth focusing knob
- Tripod compatible
- For bird watching, hiking, sight-seeing, sporting events, hunting, and
- · Includes: soft pouch, neck strap, and lens cover

WARRANTY: Backed by manufacturer's no-fault, no-hassle warranty

Cat. No.	Price
\$81729	\$43.00/Ea

## **Lume Series Aspheric COB LED Lighted** Hand-Held Magnifier with 7x **Spot Lens and Two Brightness Settings**





- For low-vision tasks including reading fine print, hobby, crafts, coin and stamp inspection, model building, jewelry making
- · Lightweight, acrylic lenses have aspheric design
- · Light rays pass through lens and meet at a single point for crystal clear and distortion-free image quality
- COB LED lights powered by 2 AAA batteries (not included)

### Magnifiers available in two different magnifications:

- 2x power (S81723) Provides a wider viewing area
- 2.5x power (S81724) Stronger magnification but smaller lens diameter

### Includes:

- 7x power spot lens built into handle at magnifier
- Protective rim around lens to protect from scratching and breaking

**WARRANTY:** Limited lifetime warranty

Cat. No.	Lens Diameter	Magnification	Quantity	Price
S81723	4.5 in.	2x	1/Each	\$90.00/Ea
S81724	3.5 in.	2.5x	4/Pack	\$58.25/Pk

## VersaLoupe 10X Focusing Stand Loupe Magnifier

A powerful focusable stand loupe magnifier that contains dual acrylic lenses to provide ultra sharp and precise image quality.

- Simply twist the focusing ring on the eyepiece in order to get a subject in focus
- Internal optics contain dual acrylic crystal clear lenses that provide ultra precise image quality
- Excellent for multiple hobbies, crafts and tasks, ideal for viewing stamps, coins, photography, and more

**WARRANTY:** Limited lifetime warranty

Cat. No.

S81160



Cat. No.	Price
\$81729 \$43.0	00/Ea



\$8.40/Ea

# LumiLoupe Ultra 5X LED Magnifier

An ergonomically designed acrylic stand magnifier with six ultra bright LED lights spaced around the base with three different brightness levels.

- Excellent aid for reading fine print or examining intricate details on coins, stamps and more
- Features three specially aligned, pre-focused acrylic lenses for high power magnifying capabilities
- Six ultra bright LED lights are spaced around the base with three different brightness levels for a customizable viewing experience
- Ergonomic design offers textured finger grips at either side of the device and a tapered base with a conveniently located on/off toggle switch
- Allows one to read for an extended period of time without having to hold a magnifier
- Powered by 3 AAA batteries (not included)

**WARRANTY:** Limited lifetime warranty

 Cat. No.
 Price

 S81161
 \$24.50/Ea

# LED VersaLoupe 10x LED Lighted Focusing Stand Loupe Magnifier

Has internal optics containing dual acrylic crystal clear lenses providing ultra-precise image quality.

- Contains five built-in powerful LED lights to illuminate subjects with ease
- For hobbies, crafts, and tasks like viewing stamps, coins, photography, jewelry, fabric, printing pixels, and small electronics
- Includes one CR2032 button cell battery
   WARRANTY: Limited lifetime warranty

 Cat. No.
 Price

 \$81731
 \$20.00/Ea

# United Scientific<sup>™</sup> 5X Single Lens

Folding magnifier in a plastic case.

This basic pocket magnifier has a 25 mm diameter lens with a 50 mm focal length for 5X magnification. The viewer's fold-over case makes it perfect for out-in-the-field uses.



Cat. No.	Price
\$19008	\$5.75/Ea

## MagniLoupe Eye Loupe Magnifier Set with Smartphone Digiscoping Clip

Contains 4 ergonomically designed eye loupe magnifiers that are engineered to rest comfortably in the eye socket



- 4 different magnifications: 4.5X, 6.5X, 8X, and 13X powers
- Distortion-free acrylic lens design is extremely compact and lightweight
- Smartphone digiscoping clip that attaches to each of the loupes by removing the rubber eyecup and sliding the smartphone adapter clip onto the loupe until it clicks into place
- Smartphone digiscoping clip is compatible with iPhone, Samsung, LG, Huawei, and Google Pixel phone models
- Digiscoping adapter is compatible with most cases, but it does not work on the largest OtterBox-style cases
- Excellent for a variety of hobbies, crafts, and tasks or for jewelers, watchmakers, viewing printing pixels, rocks, stones, gems, stamps, currency, model building and other hobby, craft, and inspection purposes

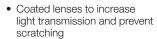
**WARRANTY:** Limited lifetime warranty

Cat. No.	Price
S81149	\$23.75/Ea

# PRO Series Magnifying Hobby Glasses with Protective



A hands-free way to support low vision needs.

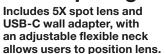


- Magnification: 1.8X (+3.25 Diopter)
- Lenses reduce blue light to ease digital eye strain, decrease risk of macular degeneration, reduce glare, increase clarity of vision
- Can use with or without prescription glasses
- For reading fine point, model-building, fly-tying, jewelry work, arts and crafts
- Includes a protective hard shell case and microfiber cleaning cloth WARRANTY: Limited lifetime warranty

Cat. No.	Price
S81728	\$40.00/Ea



## DeskBrite 300 2X COB LED Lighted 3.5 in. **Desktop Magnifier**



- · Has an aspheric design
- · Light rays pass through lens and meet at a single point for crystal clear, distortion-free image quality
- Magnifier power by USB-C to wall adapter (included) or 3 AA batteries (not included)
- For reading fine print, hobbies, crafts, sewing, needlework, model building, jewelry making, soldering, painting nails, inspection

Cat. No.

S81722

 Includes four ultra bright COB LED lights with two brightness settings

**WARRANTY:** Limited lifetime warranty





## PocketMicro 20 to 60x **LED Lighted Pocket** Microscope with **Aspheric Lens System**

LED lighted pocket microscope contains a 20 to 60x power zoom magnification range and internal aspheric lens system.

- Aspheric lens system allows light rays passing through lens to converge at a single focal point for a sharp, clear, distortion-free image
- Great beginner microscope for kids, students, hobbyists and professionals
- · For examining plant buds, coins, stamps, bugs, nature, electronics, fabric, printing
- Lightweight, compact design
- · Powered by 1 AA battery (not included)

#### For ideal use:

• Hold microscope flat against surface and make sure LED light is

CARSON

- · Begin at lowest 20x magnification and focus subject using focusing dial
- · Increase magnification to desired range using zoom dial

**WARRANTY:** Limited lifetime warranty

Cat. No.	Price
S81721	\$18.50/Ea





Price

\$47.50/Ea

Visit **fisheredu.com/HDSubscribe** to sign up for this free email.

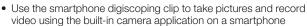




## MicroFlip Pocket Microscope with Flip Down Slide Base and Smartphone Digiscoping Clip

Features a flip-down slide base and smartphone digiscoping adapter clip.

- Contains a unique flip-down slide base
- Magnification ranges from 100X to 250X power
- Built-in UV flashlight that is ideal for detecting counterfeit currency, nectar mapping and more
- Comes with a smartphone digiscoping clip, 1 starter slide with cover slip, and a wrist strap for convenient portability



- Digiscoping clip will work with most smartphone models in the marketplace including iPhone, Samsung, HTC, LG and more
- Thicker cases like OtterBox-style cases may need to be removed before attaching the digiscoping clip
- Powered by 1 AA battery (not included)
- Excellent educational field microscope for multiple hobbies, tasks, learning and exploration
- For kids, students and even professional usage
- · Fits all phones

**WARRANTY:** Lifetime limited warranty



## United Scientific<sup>™</sup> Reflection Refraction Kit



This unique kit is great for the classroom, distance learning, and individual student demonstrations.

Introduce students to the basic concepts of light reflection and refraction with this economical kit. Guided activities include reflection of light at a plane mirror and the refraction of light at a water interface.



### Contents:

- Acrylic plane mirror, 10 x 10 cm
- Cork mat, 15 x 15 cm
- 4 Steel T-pins
- Semicircular refraction cell, 12 cm diameter x 2.5 cm high
- · Clear protractor
- · Pair of mirror support clips
- · Activity guide

Cat. No.	Price
S83791***	\$18.75/Ea

### Series and Parallel Circuits Kit

Teaches students to build parallel and series circuits using electrical components.

- Students begin by following the flow of energy from a battery as it converts to chemical, electrical, light, sound, motion, and heat energy
- FIGURE 1
- Students observe how energy flow differs when using batteries and loads in series and in parallel
- Allow for 5 hours of instruction and 5 hours of lab time
- Meets National Standards for Grades 3 to 6

### Kit includes:

- Battery holders
- Motors
- Light bulbs
- · Light bulb holders
- Alligator clip leads
- Buzzers
- Masking tape
- Propeller
- · Optional D-cell batteries

Cat. No.	Includes	Price
S27537	D-Cell Batteries	\$387.00/Ea
S27538	No batteries	\$287.00/Ea

## **Conductivity Kit**

Allows for the exploration of electrical circuits with conductive and insulative dough.

Deluxe Kit - The most complete kit that includes a deluxe battery holder, which has a knob that allows your lights to blink and buzzers to beep at different speeds



 Contents: 1 deluxe battery holder, 1

piezoelectric huzze

piezoelectric buzzer, 1 motor with fan, 1 mechanical buzzer, 1 switch, 40 LEDs (5 each of red, green, white, yellow, blue, purple, orange, and color changing), 1 set of dough sculpting tools, 1 rolling pin, 1 7 oz. container of white insulating dough, 7 7 oz. containers of conductive dough (in red, blue, and green, yellow, orange, purple, and black)

**Standard Kit** - Includes everything needed to get started with advanced projects

 Contents: 1 battery holder, 1 piezoelectric buzzer, 25 LEDs (5 each of red, green, white, yellow, blue), 1 3.5 oz. container of insulating dough, 3 3.5 oz. containers of conductive dough (in red, green, and blue)

### ALERTS: Choking Hazard

Cat. No.	Product Type	Price
S29667	Standard Kit	\$37.25/Ea
S29668	Deluxe Kit	\$79.50/Ea

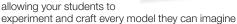
### Remote Learning: STEM / CTE

k'nex

## Power & Play 50 Model **Motorized Building Set**

**Engage students with** a fun-filled building set that stimulates curiosity and creativity.

- The K'NEX Power and Play Motorized Building Set contains 529 parts, including different types of connectors, rods, and wheels
- The parts can be joined in endless configurations to simulate 3D objects, allowing your students to



- The set includes a motor that brings your students' project to life
- The portable storage box provides hassle-free carrying
- · This set comes with easy-to-follow instructions that will teach your students to create an endless array of models, from a chopper race car, or carousel to a rocket, a spaceship, or even a game of basketball
- Promotes the development of STEAM (science, technology, engineering, arts, and math) concepts by igniting your students' natural curiosity and creativity

Cat. No.	Price
S81363	\$28.00/Ea

## STEAM **Primer with** Accessories

A revolution in smart construction fun! Keep young imaginations entertained for hours and immerse them into the STEAM subjects



of science, technology, engineering, art, and math!

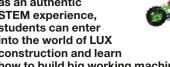
• Kit includes 111 pieces

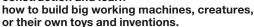
⚠ ALERTS: Set Includes Small Parts Which May Present a **Choking Hazard** 

Cat. No.	Price
S81699	\$37.75/Ea



A big, beautiful tube of inventing fun! Certified as an authentic STEM experience, students can enter into the world of LUX construction and learn





- Kit includes 223 pieces
- · Packaging: clear, 14 in. tube

Cat. No.	Price
S81700	\$70.00/Ea

### The Build Anything Bin



Kit contains 1,000 pieces, allowing students to create virtually anything! Provides a creative outlet to help them learn and retain the perfect balance of physical, emotional, and cognitive information.

- Create a guitar, spaceship, castle, even a near life-sized boat!
- Connections are made through linking which provides kids the immediate experience in the world of kinematics
- Includes bags upon bags full of brilliant colors, all in secured in a durable storage tote
- Parents' Choice Gold Award Winner, named Top Toy by Autism Live
- · ABS Plastic is tested safe and presents no choking hazard

Cat. No.	Price
S81701	\$264.00/Ea





## BIOTECHNOLOGY

Visit fisheredu.com/biotechnology

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### **Freestyle Set**

The perfect way for students to become immersed in the world of Lux Blox.

- One-of-a-kind hinged pieces snap together to allow students to build anything their imaginations can dream up
- Durable building block pieces connect on all 4 sides to allow for more flexible builds, creating toys where any part can move
- Set includes instructions for multiple builds including a Dragon, Sword, Bug Buggy, and Race Car
- Supervised use is recommended for young students





The perfect way for students to try out the world of Lux Blox.

- One-of-a-kind hinged pieces snap together to allow students to build anything their imaginations can dream up
- Durable building block pieces connect on all 4 sides to allow for more flexible builds, creating toys where any part can move
- Set includes instructions for multiple builds including a Lux Cycle, Robot, Monoplane, and Martian Lander
- Supervised use is recommended for young students

Cat. No.	Price
S81704	\$26.00/Ea



## STEM Explorations Building Sets

Building with K'NEX puts children on a path towards a fundamental understanding of STEAM/STEM subjects. K'NEX Education sets come with lesson plans and experiment guides written by educators that feature hands-on, inquiry-based projects.



- Accommodate 1-2 students, working as a team
- Ideal solution for home-school families
- · Easy-to-follow, step-by-step building instructions included
- All teacher guides and experiment guides are aligned to national standards including ITEEA, NSES, NCTM, NGSS and Common Core
- K'NEX Education sets let students build replicas of real-world machines to gain an understanding of the principles that make them work

**Gears Building Set** introduces students to concepts like gear configurations, gear ratios, rotational speed, mechanical advantage, and more.

- 143 parts to build unique, fully-functioning replicas of real-world gear models: a crank fan, an egg beater, and a car window
- Includes 3 after-build experiments that teach your child about STEM concepts like gear ratios, rotational speed and more

**Levers and Pulleys Building Set** allows parents and teachers to guide children in learning about lever classes, pulley systems, resistance, effort, and mechanical advantage.

- 139 parts to build unique, fully-functioning replicas of real-world models: a balance, a wheelbarrow, and a sailboat
- Includes 3 after-build experiments that teach your child about STEM concepts like lever classes, pulley systems, effort and more

**Vehicles Building Set** Build up to seven vehicle models with different power sources, such as push power, rubber band power, wind power, and a spring motor.

- 131 parts that build seven vehicle models with different power sources: push power, rubber band, wind, and a spring motor
- Includes 5 after-build experiments that teach your child about STEM concepts like potential and kinetic energy, velocity and more

Cat. No.	Description	Price
S81355	Gears Building Set	\$19.00/Ea
S81356	Levers and Pulleys Building Set	\$21.25/Ea
S81357	Vehicles Building Set	\$31.25/Ea



## **Beginner 40 Model Building Set**

k'nex

Beginner Building Set with new parts that are designed specifically for young builders. The design

enables students to build on a flat surface, and then combining their flat builds into one 3D creation.





- New parts specifically designed to address the needs of younger builders, who can easily build 2 flat shapes and then connect them together into a 3D creation
- Newly designed wheels pop right on
- This set contains 141 parts and easy-to-follow, step-by-step building instructions, and ideas for 40 different models
- · Can also use the parts to design and create from their own
- Packaged in a sturdy suitcase-style box with a handle for easy clean-up and portable storage
- Building with K'NEX supports students' developmental growth and puts them on a path towards a better understanding of STEM
- Students can develop spatial awareness and fine motor skills as they create and fit pieces together
- Give your students the gift of creativity with K'NEX and think outside the blocks

Cat. No.	Price
S81358	\$24.00/Ea

## K'NEXosaurus Rex Building Set

K'NEXosaurus Rex Building Set offers students a chance to experience the amazing world of dinosaurs by creating their own.

- Build a K'NEXosaurus Rex with the 255 vibrant parts and pieces included in this set
- All parts are well-constructed plastic
- · Includes an additional model for a Megasaurus dinosaur
- Package includes iconic rods and connectors that snap together to make customizable figures and a

battery-powered motor to operate the structures

- Step-by-step instructions are downloadable for two motorized builds
- Promote your students' development of STEAM (science, technology, engineering, arts, and math) concepts by igniting their natural curiosity and creativity

FIICE
\$64.50/Ea



**Bring STEM concepts** to life as your students build fully functioning replicas of real-world machines, one at a time.

- · Each set includes instructions to build seven or more replicas of real-world machines, one model at
- Sets include K'NEX parts, building instructions, key facts and photos of actual machines
- · Packs of four
- Grades 3 to 5

### **Key Concepts Include:**

- Making work easier
- W=Fd (Work equals force times distance)
- · Changing the direction of force
- · Ideal mechanical advantage
- · Actual mechanical advantage

### Gears Set (S67347) includes:

- 198 K'NEX pieces per set
- Building instructions for seven replicas of real-world machines
- · Demonstrates gear configurations, including spur

- Wedge screw
- Gear ratios
- · Mechanical systems
- Gear types
- · Lever classes
- · Pulley systems

and crown gears, mechanical advantage, gear ratios, how gears are used to change the amount of applied force to an object and more

### Levers and Pulleys Set (S67348) includes:

- 178 K'NEX pieces per set
- Building instructions for eight replicas of real-world machines
- Demonstrates lever classes and pulley systems, showing how and why simple machines make work easier

### Wheels, Axles, and Inclined Planes Set (S67349) includes:

- 221 K'NEX pieces per set
- · Explore examples of wheels and axles and identify the differences between an
- inclined plane, wedge and screw
- Building instructions for seven replicas of real-world machines

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### ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Description	Price
S67347	Gears 7 Model Set	\$65.00/Ea
S67348	Levers and Pulleys 8 Model Set	\$60.75/Ea
S67349	Wheel and Axle 7 Model Set	\$65.00/Ea



k'nex

## STEM Explorations: Roller Coaster Building Set

Students explore STEM concepts while building a working roller coaster.



- Middle school students will be engaged and energized as they further their knowledge and understanding of the science, technology, engineering and math concepts associated with a real-life amusement park ride
- Once built, a downloadable booklet guides students through 3 hands-on, inquiry-based experiments on each of the models
- Students will learn about the relationship between time, distance, and speed plus much more
- The Experiment Guide is aligned to national STEM standards and is appropriate for grade levels 5 to 9

### Set includes:

- More than 500 parts
- A battery-powered motor for one student or team of 2-3 students to build a working roller coaster
- This kit can be used to build three projects: a roller coaster, a ramp, or a half-pipe (each can be built one at a time)

Cat. No.	Price
\$14016	\$75.25/Ea

# Introduction to Structures: Bridges Set



## Construct, investigate and experiment with seven different types of bridges.

- Builds 13 bridge models, one model at a time
- Models demonstrate seven key bridge types: arch, beam, bascule, cantilever, cable-stayed, truss and suspensions
- Grades 5 to 9

### Key concepts include:

- Design process
- Compression
- Tension
- Load (dead and live)
- Force
- Stress
- · Cantilever construction
- Suspension technology

Cat. No.	Price
S67346	\$65.00/Ea

## Intermediate 60 Model Building Set

K'NEX<sup>™</sup> Intermediate Building Set for building and rebuilding over 60 models.

- 395 parts featuring an all new color palette
- K'NEX rods and connectors easily snap together with a satisfying click
- STEM Learning Fun: Building with K'NEX helps strengthen fine motor skills and spatial awareness; putting students on a path towards a greater understanding of STEM subjects

Cat. No.	Price
S81361	\$37.00/Ea

## Classic Constructions 70 Model Building Set

Stimulate imagination the fun way with more than 700 classic K'NEX pieces and 70 different models.



- With more than 700 classic K'NEX pieces, this building toy gives students a resource for learning and enjoying themselves at the same time
- The K'NEX building system contains plastic rods and connectors, which combine in many different ways
- They can be assembled to create working vehicles, animals, moving structures, buildings, and just about anything else students can imagine
- Includes more than 70 building ideas and an illustrated manual that guides young engineers toward amazing creations
- This educational toy not only provides hours and hours of fun, it helps students understand STEAM (science, technology, engineer, arts, and math) subjects
- This set helps support key points of students' development: hand-eye coordination, fine motor skills, problem-solving ability, spatial awareness, and imagination
- Tested and guaranteed to be durable, all K'NEX products meet the strictest quality and safety standards
- Create scale models of famous buildings, creepy crawlies, blazing fast race cars, or anything else your students can think of

Cat. No.	Price
S81362	\$50.75/Ea

Please see STEM catalog Robotics and Engineering section for more construction sets.

## **STEM Explorations: Swing Ride Building Set**

### Students explore STEM concepts while building a motorized swing ride.

• Middle school students will be engaged and energized as they further their knowledge and understanding of the science, technology, engineering and math concepts associated with a real-life amusement park ride



- Once built, a downloadable booklet guides students through 3 hands-on, inquiry-based experiments on each of the models. Students will learn about how mass affects speed, how to gear-up and gear down, and much more
- The Experiment Guide is aligned to national STEM standards and is appropriate for grade levels 5 to 9

### Set includes:

- More than 470 parts plus a battery-powered motor for one student or a team of 2-3 students to build a working swing ride
- This kit can be used to build three projects: a swing ride, a Ferris wheel, or a boom ride (each can be built one at a time)

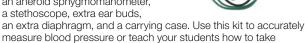
Cat. No.	Price
S14015	\$53.00/Ea

### Blood **Pressure Kit**

### How's your blood pressure today?

measurements.

The blood pressure kit includes an aneroid sphygmomanometer,









## **Origami Organelles Plant Life Cycle Model**



This model shows the stages of a plant life cycle and what happens at each step.

- The life cycle of a flowering plant takes it from a seed to a fully grown plant and back to a seed again
- Takes just 30 minutes to build the model
- Students build their models of a seed, seedling, tree, flower, bee, fruit and deer
- Utilize the models to learn about the germination, growth, flowering, pollination, fertilization, fruit formation, and seed dispersal
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions (flower):** 5 in. x 4 in. (12 cm x 10 cm)
- Download includes: instructions, color and mono model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05716	Grade: 4 to 12	\$7.00/Ea

## **Origami Organelles Nitrogen Cycle Model**



35

This interactive model helps students learn about the nitrogen cycle.

- Students build their model using the colorful parts of the template
- · Discover the features of the nitrogen cycle by visualizing connections as they make the model
- Takes about 30 minutes to build the
- The model covers: nitrogen fixation (legumes, lightning and Haber-Bosch process), assimilation, ammonification (decay), nitrification, denitrification and combustion of fossil fuels. It also considers the human impact on the nitrogen cycle
- It can even be made into a colorful 3-dimensional classroom poster
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 26 in. x 20 in. (67 cm x 50 cm)
- Download includes: instructions, templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05717	Grade: 4 to 12	\$7.00/Ea



## Origami Organelles Climate Change Model



Students can engage with this colorful, easy-to-build model to learn about the effects of climate change, and discuss ideas for solving it.

threats to low level coastlines





- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 9 in. x 10 in. x 4 in. (23 cm x 25 cm x 10 cm)
- Download includes: instructions, color and mono model templates, and PowerPoint presentation
- All you need: paper, scissors and tape

Cat. No.	Description	Price
S05718	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Carbon Cycle Model



Teach the carbon cycle using this colorful, interactive model.

- Students will build their model then study the carbon cycle components such as carbon stores, and carbon transfers
- Carbon transfers shown include photosynthesis, respiration, combustion of fossil fuels, volcanic eruptions, decomposition, erosion of sedimentary rock and diffusion from the ocean surface



- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 8 in. x 6 in. x 4 in. (20 cm x 15 cm x 10 cm)
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors and tape

Cat. No.	Description	Price
S05719	Grade: 4 to 12	\$7.00/Ea

## Origami Organelles Simple Animal Cell Model



Provides a fun introduction to animal cells for students of any age.

 Your students will enjoy learning about cells with this colorful model. The model covers all the main parts of cells (cell membrane, nucleus, chromosomes, mitochondria). For more advanced students, you can



- extend the model with optional parts (rough ER, smooth ER, and
- Students make their cell model using the colorful parts working alone or in small groups. They can make a simple version or use the optional parts to show more features. It can be printed in color, or in mono on colored or white paper. Includes a full-color PowerPoint class presentation
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 7 in. x 5 in. (17 cm x 14 cm)
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors and tape

Cat. No.	Description	Price
S05720	Grade: 4 to 12	\$6.00/Ea

## Origami Organelles Simple Plant Cell Model



Provides a fun introduction to plant cells for students of any age.

 Your students will enjoy learning about cells with this colorful model. The model covers all the main parts of plant cells (cell membrane, cell wall, chloroplasts, nucleus, chromosomes, mitochondria). For



- more advanced students, you can extend the model with optional parts (rough ER, smooth ER, and Golgi)
- Students make their cell model using the colorful parts working alone or in small groups. They can make a simple version or use the optional parts to show more features. It can be printed in color, or in mono on colored or white paper
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 7 in. x 5 in. (18 cm x 14 cm)
- Download includes: instructions, model templates, and full color PowerPoint class presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05721	Grade: 4 to 12	\$6.00/Ea

# Origami Organelles Simple Bacterial Cell Model



Students can build a bacterial cell model to gain insights into its structure and functions.

- Bacterial cells are one of the oldest forms of life on Earth and cause many human diseases
- The model shows your students the main structures of a bacterial cell: cell wall, cell membrane, genome, plasmid, flagellum. This easy to make model does not need any tape or glue to build



- **Dimensions:** 7 in. x 2 in. (17 cm x 5 cm)
- Download includes: instructions, model templates, and full color PowerPoint class presentation
- All you need: paper, scissors and tape

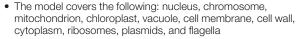
Cat. No.	Description	Price
S05722	Grade: 4 to 12	\$6.00/Ea

## Origami Organelles Cell Structure Model



This colorful, easy-to-build model shows what makes animal, plant, bacterial, and fungal cells different from each other.

- To function, they have different combinations of subcellular structures (organelles)
- Your students make models out of the colorful parts of four different cells
- Utilize the model to look at what the subcellular structures do and compare and contrast the different types of cells



- · Takes just 30 minutes to build the model
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: Bacterial Cell length: 4 in. (11 cm)
- **Download includes:** instructions, model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05723	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Biology Bundle

NEW

37

Get all 83 Biology Origami Organelles in one convenient set that can be downloaded and printed as often as needed, at no additional cost.

 Includes instructions, templates and presentations for these models: Abdomen, Alveoli, Amoeba, Apoptosis, ATP Synthase, Anaerobic Respiration and Fermentation, Antibodies, Biochemistry of Vision, Calvin Cycle, Carbon Cycle, Cell



Membranes, Cell Nucleus, Cell Signaling, Chlamydomonas, Citric Acid Cycle, Colorful Chromosomes, Cool Chloroplasts, CRISPR-Cas9, Crucial Krebs and the Link Reaction, Digestive System, DNA Replication, DNA Structure, Easy Eye, Electron Transport Chain, Endoplasmic Reticulum, Enzymes, Euglena, Fermentation, Fertilization and Reproductive Technology, Frog Life Cycle, Fun with Flowers, Gene Cloning, Gluconeogenesis, Glucose Uptake by Small Intestine, Glycolysis, Golgi and Lysosome, Groovy Glycolysis, Human Brain, Human Ear, Human Eye, Human Heart, Human Kidney, Immune System, Lac Operon, Leaf Structure, Link Reaction/Pyruvate Oxidation, Liver and Spleen, Lungs, Lymph Node, Malaria, Mega Mitochondria, Mighty Mitochondria, Mitosis and Meiosis, Muscle Shuffle, Nephron, Nerve Cell, Nerve Impulses, Neuromuscular Junctions, Osmosis and Diffusion, Paramecium, Parasympatheic Nervous System, Phloem and Translocation, Photosynthesis Light Reactions, Polymerase Chain Reaction (PCR), Receptor Tyrosine Kinases (RTKs), Rod Photoreceptor Cell, Simple Animal Cell, Simple Bacterial Cell, Simple Plant Cell, Skin, Spinal Nerves, Stem Cells, Super Simple Cell, Sympathetic Nervous System, Synapses, Teeth, Transcription, Translation and Protein Synthesis, Urinary System, Villus, Water Cycle, Xylem, Zika Virus

- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Due to the number of files in this set, 9 email links are sent within a few hours of purchase
- Download Includes: Instructions and color and mono model templates. PowerPoint classroom presentations are included for all models
- All You Need: Paper, scissors, glue or tape

Cat. No.	Description	Price
S05724	Grade: 4 to 12	\$327.00/Ea



# Origami Organelles DNA Structure Model



Teach DNA structure as part of introductory or advanced lesson plans.

 Teaches the importance of complementary base pairing, nucleotide structure, double-helix shape, 5' and 3' ends, antiparallel strands, sugar-phosphate backbone, purines and pyrimidines and DNA sequence



- Students can build base pairs then combine them to make the DNA double helix
- Models can be built in different lengths and in any sequence needed to support your lesson plan
- Takes about 20 minutes to make a 12 base pair model
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: DNA strand: 17 in. x 4 in.
- Download includes: instructions, color and mono model templates and PowerPoint presentation
- All you need: paper, scissors and tape

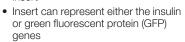
Cat. No.	Description	Price
S05725	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Gene Cloning Model



This colorful, interactive model helps students learn about gene cloning and genetic engineering.

 Students can make a plasmid model from base pairs, perform a restriction enzyme digest, and add a gene insert





- Takes about 20 minutes to make if divided between 5 groups of students. Can be kept intact and reused once assembled
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 16 in. (40 cm) diameter
- Download includes: instructions, color and mono model templates and PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05727	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles DNA Replication Model



Engage students in introductory or advanced DNA replication lesson plans using this easy-to-build model.

 Students learn about the enzymes involved in DNA replication, the importance of RNA primers, leading and lagging strands, and are able to complete an option proofreading activity



- Takes about 20 minutes to make a 12 base pair model
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 14 in. (35 cm) long
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05726	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Lac Operon Model



Give students a hands-on way to learn about and explain gene regulation in *E. coli*.

 The lac operon consists of 3 genes that the bacteria E. coli use to utilize lactose as a food source. The genes are only switched on when lactose is present



Your students will make a model of the lac operon and use it to see how bacteria are able to control these genes. The model covers the lac repressor, RNA polymerase, operator, promoter and the lacZ, lacY and lacA genes and their products



- **Dimensions:** 19 in. x 7 in. (48 cm x 18 cm)
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: scissors and tape

Cat. No.	Description	Price
S05728	Grade: 4 to 12	\$7.00/Ea

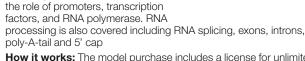


# **Origami Organelles** Transcription Model



Use this colorful, interactive model to teach the principles of transcription.

- Transcription is how the genetic information stored as DNA in the nucleus is copied into RNA so it can be used to make proteins
- · Your students will make a model of a DNA template and transcribe it into messenger RNA. The model covers the role of promoters, transcription factors, and RNA polymerase. RNA poly-A-tail and 5' cap



- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 25 in. x 10 in. (64 cm x 26 cm)
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors, and tape

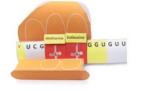
Cat. No.	Description	Price
S05729	Grade: 4 to 12	\$7.00/Ea

# **Origami Organelles Translation and Protein Synthesis Model**



#### Teach protein synthesis and ribosomes.

· Ribosomes are the factory workers of the cell. Your students will build their own model ribosome out of paper that they can hold in the palm of their hand. They will then use the model to make a peptide from five amino acids using transfer RNAs (tRNA) following a messenger RNA (mRNA) sequence



- Covers: translation, protein synthesis, codons, anticodons, messenger RNA (mRNA), transfer RNA (tRNA). Useful as homework or classroom activity
- . How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 5 in. x 3 in. x 4 in. (13 cm x 7 cm x 10 cm)
- Download includes: instructions, model templates, and colorful PowerPoint classroom presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05730	Grade: 4 to 12	\$7.00/Ea

# **Origami Organelles Mitosis and Meiosis** Model



Students will build and use the model to perform the stages of cell mitosis and meiosis.

 Mitosis: Students will perform chromosome alignment and segregation, and learn about the cell cycle as they make two diploid



- Meiosis: Students will carry out independent assortment and crossing over while creating four haploid daughter cells
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: largest chromosome 12 cm (5 in.) long
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: scissors and tape

Cat. No.	Description	Price
S05731	Grade: 4 to 12	\$7 00/Fa

# **Origami Organelles ELISA Model**



Show students how three types of ELISA tests detect viruses and help reduce the spread of infectious diseases, like coronavirus.

- · Early detection of an infectious disease such as coronavirus is crucial to reducing the spread of such diseases
- · ELISA relies on the use of monoclonal and polyclonal antibodies that are used together to amplify a small signal



- The model shows how primary antibodies, secondary antibodies, and detection works in direct ELISA, indirect ELISA and sandwich FLISA
- · Time to build model takes about 30 minutes
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 3 in. x 2 in. (8 cm x 5 cm)
- Download includes: instructions, color and mono model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, tape

Cat. No.	Description	Price
S05732	Grade: 4 to 12	\$7.00/Ea



# **Origami Organelles** Coronavirus Model



Teach the structure and functions of the SARS-CoV-2 virus that causes COVID-19 and its variants.

 The outbreak of coronavirus (2019-nCoV) highlights the importance of understanding how such viruses infect us and how we can use this understanding to develop vaccines and medicines



- The model includes the viral envelope, RNA genome, spike protein, membrane protein, envelope protein and the enzymes replicase and protease
- Your students will learn about coronavirus structure and life cycle and provides a good starting point to discuss the challenges that are caused by novel virus strains
- It can also be used as an introduction to general virus structure for all levels of students
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 6 in. (15 cm) in diameter
- Download includes: instructions, model templates and PowerPoint
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05733	Grade: 4 to 12	\$7.00/Ea

# **Origami Organelles** CRISPR Model



#### Help students gain insight into genome editing.

- · CRISPR is a genetic engineering technique that makes editing genomes easy and inexpensive
- · It is based on a type of immune system found in many types of prokaryote



- Next, they use these to see how genome editing is done. Making the model and carrying out the activity makes CRISPR easy to
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 10 in. x 7 in. (26 cm x 18 cm)
- Download includes: instructions, model templates, and full color PowerPoint class presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05734	Grade: 4 to 12	\$7.00/Ea

# **Origami Organelles Polymerase Chain** Reaction (PCR) Model



Use this colorful model to help vour students understand PCR.

• They learn about the importance of Tag polymerase, that DNA is only synthesized in the 5' to 3' direction, DNA primers, the steps of PCR - denaturing, annealing and extension. Compare PCR and DNA replication using the DNA replication model



- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: DNA Template 14 in. (35 cm) long
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05735	Grade: 4 to 12	\$7.00/Ea

# **Origami Organelles Amino Acids Model**



Model all 20 amino acids with the Origami Organelles Amino Acids Model.

- · Amino acids are the basic units of proteins that are essential for life
- Their sequence in proteins is encoded by the genetic code of DNA
- They have two functional groups: carboxylic acid and an amino group
- Each amino acid also has a unique side chain (or R group)
- · Amino acids are easy to understand with our unique molecular models that show how electrons behave during bond formation
- Your students first build their easy to make paper models of atoms and electrons
- They use these to form organic molecules by sharing electrons between the atoms
- The differently colored electrons make it easy to see how the bonds
- The models can then be used to show the structure of the 20 naturally occurring amino acids, their physical properties and the formation of peptide bonds
- Clear instructions are provided in the PowerPoint presentation
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: Model atom diameter 4 in. (10 cm)
- Download includes: instructions, model templates, and Powerpoint presentation
- · All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05738	Grade: 4 to 12	\$7.00/Ea



# Origami Organelles Enzymes Model

This easy to make model gives your students a way to visualize how enzymes catalyze biochemical reactions inside our cells.

- After making a model, use it to look at how enzymes speed up reactions of substrates in their active sites to produce products
- Then use the model to see how inhibitors work and how enzymes are regulated
- Covers: enzyme substrate interaction, active site, catalytic cycle, competitive inhibitors, non-competitive inhibitors, allosteric activators, allosteric inhibitors, and cooperativity
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 4 in. x 5 in. (11 cm x 13 cm)
- Download includes: instructions, color and mono model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05736	Grade: 4 to 12	\$7.00/Ea



# Origami Organelles Fermentation Model



This model shows students how enzymes perform fermentation, and teaches students the different types of fermentation and their relation to protein structure.



- Anaerobic fermentation is essential to regenerate NAD+ to keep glycolysis working
- When carried out by microbes such as yeast it produces alcohol and carbon dioxide as byproducts that are used in brewing and baking
- In our muscles, fermentation instead produces lactic acid that must be removed later on
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 13 in. x 7 in. (33 cm x 18 cm)
- Download includes: instructions, color and mono model templates, and PowerPoint presentation
- All you need: paper, scissors, glue or tape

Cat. No.	Description	Price
S05737	Grade: 4 to 12	\$7.00/Ea



Visit **fisheredu.com/customkitting** to learn more.



fisheredu.com



# Origami Organelles Cell Signaling Model



Make cell signaling easy to understand with the interactive Origami Organelles Cell Signaling Model.

- The fight or flight response relies on a fast reaction to the hormone adrenaline (epinephrine)
- One of the responses for liver and muscle cells is to quickly break down glycogen into glucose as an energy source.
- Cell signaling is crucial for this to happen
- Your students will make a model of the cell signaling pathway that leads from the hormone receptor to the enzyme that breaks glycogen down
- It covers G protein-coupled receptor, G protein, cyclic AMP as a second messenger, phosphorylation, and protein structure
- By using dynamic models what can seem complex becomes clear
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 11 in. x 9 in. (28 cm x 23 cm)
- Download includes: instructions, model templates, and PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05739	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Frog Dissection Model



Use this detailed model to help students learn about organ systems, to prepare students for a frog dissection, or as an alternative to dissection.

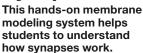
 With this model, your students can carry out a dissection using our detailed paper model of a frog. Use to prepare students for a dissection or as an alternative to a real dissection.

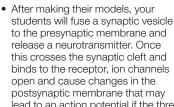


- Students assemble the easy-to-make frog using the colorful parts working alone or in small groups
- · Build the frog and then add the organs to the model
- The model can be used to identify the organs of a frog including the heart, lungs, liver, gall bladder, spleen, esophagus, stomach, pancreas, small intestine, large intestine, urinary bladder, kidneys, adrenal body, fat bodies, cloaca, male and female parts
- Takes about 30 minutes for a group of students to make the model
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 15 in. x 10 in. (38 cm x 27 cm)
- Download includes: instructions, color and mono model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05741	Grade: 4 to 12	\$9.00/Ea

# Origami Organelles Synapses Model







- lead to an action potential if the threshold is passedCovers synapse structure, role of neurotransmitter, summation,
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- Dimensions: 10 in. (25 cm) across

inhibitory and excitatory synapses

- Download includes: instructions, color and mono model templates, and PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05740	Grade: 4 to 12	\$7.00/Ea

# Origami Organelles Fetal Pig Dissection Model



Use this detailed model to teach students about key body organ systems, to prepare students for fetal pig dissection, or as an alternative to dissection.

- With this model, your students can carry out a dissection using a detailed paper model of a fetal pig.
   Use to prepare students for a disser-
  - Use to prepare students for a dissection or as an alternative to a real dissection
- Students make the model of a fetal pig out of the colorful parts
- Build the pig and then add the organs to the model
- The model shows how a fetal pig differs from an adult animal covering the fetal circulation and umbilical cord
- · Carry out a dissection to see how the parts fit together
- It can be used to look at different organ systems and for comparative anatomy
- Takes about 60 minutes to make the model but can be carried out over a series of sessions
- The model can be used to look at the anatomy of the major body systems. It covers the nervous system (brain and spinal cord), circulatory system (heart and major blood vessels), respiratory system (lungs and trachea), digestive system (mouth, esophagus, stomach, small intestine, spiral colon, rectum, pancreas, liver, gallbladder), excretory system (kidneys and bladder) and male and female reproductive systems
- · For use in class or for distance learning at home
- How it works: The model purchase includes a license for unlimited use at one site or an entire campus. The model will be emailed as a PDF to be downloaded and printed for repeated classroom use
- **Dimensions:** 14 in. x 10 in. (35 cm x 24 cm)
- Download includes: instructions, color and mono model templates, and classroom PowerPoint presentation
- All you need: paper, scissors, and tape

Cat. No.	Description	Price
S05742	Grade: 4 to 12	\$10.00/Ea

#### STEM Lab & Makerspace

3D Printing

## **Compact FDM 3D Printers**



A compact FDM 3D printer is perfect for hobbyists, beginners, and enthusiasts. It offers superior printing size with a one-piece structure allows you to save space but build the world.

#### **Technical Innovations**

- Power cut protection functions –
  meets the needs of fast heating,
  longtime printing, and resume prints,
  even after a power outage or lapse occurs
- High-precision printing quality CNC machined Y-rail mounting grooves give your printer precise positioning and a stable frame

#### **Tech Specs**

- Print volume: 220 x 220 x 250 mm (8.6 x 8.6 x 9.8 in.)
- Nozzle diameter (standard): 0.4 mm
- Filament diameter: 1.75 mm
- Max traveling speed: 180 mm/s
- Power: 24V / 270W
- Max nozzle temperature: 255°C
- Layer thickness: 0.1 to 0.4 mm
- Precision: ±0.1 mm
- PicoSupport option
- On-boarding support: 1.5 credits which currently equals 1.5 hours of video support to get going

#### Ender-3 V2 (S4131933)

- Easy assembly 10 minutes and 20 screws is all it takes to get printing
- Printer weight: 8.6 kg (19 lb.)
- Extruder: Mk-10
- Interface: SD Card, USB
- Physical dimensions: 440 x 410 x 465 mm

#### Ender-5 Pro (S4131934)

- Modular design Allows the printer to be assembled to meet your needs
- Ultra-mute motherboard an upgraded motherboard produces less noise
- Metal extruding unit stable filament feeding and wear-resistance for better printing quality
- Double Y-axis control system with synchronous operation and stable output to avoid vibrations resulting from long-time printing
- V-slot profile and pulley for stable and smooth operation, low-noise, wear-resistance, and longer service life
- Printer weight: 11.8 kg (26 lb.)
- Interface: Online or TF Card Offline
- Physical dimensions: 552 x 485 x 510 mm

**WARRANTY:** Extended warranty option: in the event of machine failure within the course of a year we will fix the printer, including round-trip shipping.

riangle ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Description	Price
S4131933	Ender-3 V2	\$392.00/Ea
S4131934	Ender-5 Pro	\$543.00/Ea

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## **Delta 2040 3D Printers**

A reliable and versatile FDM printer that can alternate between FDM and LDM printing using the Add on WASPs Clay Kit!

The WASP Delta 2040 Pro is a reliable and versatile FDM printer. Add on WASPs Clay Kit to alternate between FDM and LDM (liquid deposition modeling) printing! Extend your warranty and add a support package for training, design/slicing consultation, and more.

• Print Volume: 200 x H 400 mm

• Layer Height Min: 50 micron

• Print Speed Max: 500 mm/s

• Movement Speed Max: 800 mm/s

Heated Bed Temp Max: 110°C

#### **Physical Dimensions**

• Dimensions: 49 x 44 x 87 cm

• Machine Weight: 25 kg

#### **Configuration Tools**

WASP Spitfire Red Extruder

Nozzle Diameters: 0.4 mm, 0.7 mm, 1.2 mm

• Usable Filament: 1.75 mm

• Materials: PLA, PETG, ABS, PA, and Carbon

LDM WASP Extruder for ceramic materials

• Nozzle Diameters: 1.2 mm, 2 mm

• Materials: Porcelain, Clay, Stoneware, and Earthenware

#### **Features**

- Suspended Bowden: This makes it possible to unload the inertia on the suspension bands and exponentially improve the quality and speed of printing
- Resurrection System: The system resumes interrupted prints in case of accidental shutdown or sudden power failure
- Free Zeta System: Measures the height of your print where the printing stopped to restart from this height

#### Mechanics

- Frame and Cover: Aluminum, Polycarbonate, PMMA
- Printing Surface: Ground Aluminum
- Wheel Movements: Nylon on anodized aluminum profiles TPU belts with stainless steel core resistant to high temperatures
- · Motors: Stepper

#### Software

- Operating Systems: Windows, Mac, Linux
- · Compatible with all slicing software

#### Delta 2040 Hybrid (S4131941)

 Includes all features of the 2040 Pro, plus the ability to switch to Clay printing with the addition of the WASP LDM Clay Kit Extrusion System (S4131948)

⚠ ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Description	Price
S4131940	Delta 2040 Pro	\$4,720.00/Ea
S4131941	Delta 2040 Hybrid	\$5,890.00/Ea

# LDM Clay Kit Extrusion System 3.0



The LDM Clay Kit Extrusion System 3.0 can be used to turn your FDM printer into a hybrid printer with LDM printing capabilities.

- Air compressor is necessary for WASP LDM Printing but is not included in Clay Kit Add On
- Compatible with all air compressors with a minimum of 8 bar

#### **Standard Configuration includes:**

- LDM extruder
- 1.2 mm and 2 mm diameter nozzles
- 3 L tank
- Tank stand
- WASP gauge

- Teflon tubing
- Nylon tubing
- 25 lb. porcelain
- Manual
- on .
- SD card

#### Compatible with the following printers:

- WASP 2040 Hybrid
- WASP 40100 Clay
- WASP 2040 Clay
- WASP 60100 Pro
- WASP 4070 Pro

Cat. No.	Price
S4131948	\$1,177.00/Ea

## Spitfire Red Extruder

The WASP Spitfire Red Extruder is a fast and accurate single extruder for WASP FDM printers.



- Single extruder for WASP FDM printers
- Fast and accurate printing in a variety of materials
- Expand your printing possibilities with additional interchangeable cartridges and nozzle diameters, with the simple turn of a screw

⚠ ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Price
S4131951	\$295.00/Ea



## LDM Extruder 3.0

The WASP LDM Extruder 3.0 is a ceramic extruder used for the deposition of dense fluid material as clay mixture and experimental materials. It is equipped with a screw system capable of regulating the output flow of the material, allowing rapid flow interruption traction control.



#### Innovation:

- Steel screw designed to triple the extrusion flow
- Luer lock adapter

#### Features:

- · The screw eliminates air bubbles in the mixture
- Extrusion controlling system with retraction option
- · Outward pressure multiplier

#### Included:

- 1.5 mm steel nozzle ideal for accurate printing, medium difficulty, with the material up to 0.3 mm
- 2 mm steel nozzle ideal for fast printing, low difficulty
- · 3 mm steel nozzle ideal for really low difficulty printing
- Adapter for Luer lock nozzles to also use a conical plastic nozzle

riangle ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Price
S4131964	\$471.00/Ea

## **LDM Tank**

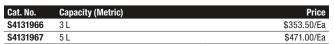
#### A certified aluminum tank for LDM printing.



 Newly designed for easy disassembly and loading

- WASP LDM tanks come in a variety of sizes for testing materials, or producing large LDM prints
- Safety release valve set at 7 bar

⚠ ALERTS: Small Parts - Not recommended for children under 3 years old.





Ideal for STEAM curriculums' classroom instruction and activities.

- Compatible with Google Chromebook and iPad
- Full enclosures are designed for safety and include HEPA filter
- Includes a spare parts pack, 2 hours of online training, and a starter plan to MyStemKits K-12 curriculum



#### 3D Printer with WiFi (S72787)

 Includes Robo C2 Printer, Power Cable, Spool of Filament, Quick Start Guide, USB with 3D Models, 1-year Autodesk Fusion 360, Tool Kit

#### ProSmart Professional Grade 3D Printer with WiFi (\$81379)

• 9.8 x 11 x 11.8 in. build volume. Includes over 300 STEM-driven lessons and design challenges

WARRANTY: Comes with an extended 2-year warranty

Cat. No.	Description	Price
S81379	Pro Smart Professional Grade 3D Printer with WiFi	\$2,460.00/Ea
S72787	3D Printer with WiFi	\$1.039.00/Ea

# MyStemKits E3 School Bundle

Deliver interactive and engaging STEM education using 3D printing to create manipulatives for over 180 hands-on STEM projects. The bundle includes projects for K-12 curriculums.



Includes a one-year subscription to the

MyStemKits School Plan (maximum of 8 teacher account), (2) Robo C2 3D Printers, (10) 500 g rolls of filament, and 2 hours of online training.

Cat. No.	11100
S72791	\$4,650.00/Ea

## **Filament 10 Pack**

Easy-to-use, non-toxic, odorless and biodegradable. Ideal for making a wide range of durable prints with Robo 3D printers.



Cat. No.	Description	Price
S72792	Filament 10 Pack	\$260.00/Ea

Please see the web for all of your 3D printing accessories as well as Installation and Service Packages.



# 3D Printing Materials Zero Waste Box<sup>™</sup>



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Recycle 3D Printing Materials. Each box includes signage, a built-in liner, shipping to and from your location, and processing of the materials.

#### What You Can Recycle

- Accepted Waste: Please send us any printing spools and scrap printing material generated by your 3D printer including ABS, HIPS, Nylon, and TPU.
- Unaccepted Waste: Do not send in 3D printers, 3D printer parts, traditional printer cartridges, or 3D prints of any material other than ABS, HIPS, Nylon, and TPU. Printing materials made from PP, PE, PS, and PTEG may be collected in our Plastic Packaging Zero Waste Box. Printing Materials made from PLA may be collected in our Biodegradable Plastics Zero Waste Box.

#### **How It Works**

- Order: Select a Zero Waste Box system and place your order
- · Collect: Collect the accepted items to fill the system
- Ship: Send it back to TerraCycle with the prepaid return label on your system
- Reorder: Order your next Zero Waste Box system to continue to recycle everything

#### What's Included?

- One Zero Waste Box
- · One prepaid return label, affixed to your box
- Processing and recycling of the materials
- Customer support from our team of experts

#### ⚠ ALERTS: Not available in Hawaii, Alaska, and Puerto Rico.

Cat. No.	Capacity (Metric)	Dimensions (L x W x H)	Price
S88854135	39.66 L	11 x 11 x 20 in.	\$240.00/Ea
S88854136	79.31 L	11 x 11 x 40 in.	\$444.00/Ea
S88854137	136.42 L	15 x 15 x 37 in.	\$517.00/Ea

#### **Robotics & Engineering**

## Snap Circuits Sets

#### Create exciting experiments.

 Enjoy hours of educational fun while building projects such as AM radios, burglar alarms, flashlights, doorbells and electronic games.



- Project components feature easy-snap assembly with no tools required
- Snap Circuits offers more than 300 project options; requires four AA batteries (not included)
- Snap Circuits Jr. offers over 100 project options; requires two AA batteries (not included)

# ⚠ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Description	For Use With (Application)	Weight	Price
S66934A	Snap Circuits <sup>™</sup> Jr. <sup>™</sup> 100 Experiment	To build electronic equipment such as radios, alarms, and flashlights	1.75 lb.	\$53.75/Ea
S66934	Snap Circuits™ 300 Experiment	To build equipment such as AM radios, burglar alarms, flashlights, doorbells, and electronic games	3.1 lb.	\$105.00/Ea

## **Elementary Snap Circuits Kit**

A great introduction to the world of electricity and electronics.

- More than 30 parts that easily snap together
- Build over 100 experiments without any tools
- Full-color manual includes information about resistors, capacitors, transistors, motors, batteries, series/parallel circuits, and more



riangle ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.

Cat. No.	Price
S68214	\$81.50/Ea

# Intermediate Snap Circuits Kit

Puts the excitement into electricity and electronics.

- More than 60 modular parts to build over 300 experiments
- Full-color manual relates information about resistors, capacitors, transistors, motors, various types of circuits, and more
- Parts are stored in a lightweight, durable case with custom foam inserts

Cat. No.	Price
S68213	\$161.00/Ea

Please see Life Science catalog for bioengineering products.



# Eisco<sup>™</sup> Series and Parallel Circuit Demonstration Board



Helps students to distinguish between series and parallel circuits.

- Helps students improve their conceptual and mathematical understanding of how voltage, current, and resistance behave in series or parallel circuits
- Depending on the configuration, luminosity of lightbulbs vary to show how parallel and series circuits differ
- Connects to power sources (such as battery) using spade terminal connections (battery and connectors not included)

Cat. No.	Price
\$13003	\$81.00/Ea

## **Bristlebots**

This Bristlebots pack includes everything needed to build BristleBots that help teach basic engineering, motors, circuits, and physics concepts (i.e. balance principles).



- A Bristlebot is a small robot made by combining a toothbrush head and a vibrating pager motor
- Vibrations from the motor travel down the bristles and cause the brush to move and spin on flat surfaces
- Adjust different parts by bending, twisting, and angling the chenille stems into different positions to see how it affects the movement and direction of the Bristlebot
- Build time: 3 to 10 minutes
- Suitable for ages 5+
- Ideal for camps, scout troops, homeschool, libraries, after-school, STEM/STEAM groups, birthday party, and classroom activities
- · Race or battle Bristlebots against each other

riangle ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Price
S81174	\$151.00/Ea

#### Makerspace Supplies

## **FormBox**

The Mayku FormBox is your very own desktop production line.

 Whether you're crafting by hand or partnering with your 3D printer, the FormBox fits perfectly into your workspace, so you can create a factory finish without the factory





#### **Sheets**

Mayku Cast Sheets are transparent, non-stick, food-safe sheets for making reusable molds.

Mayku Form Sheets are great for product packaging, prototyping and enhancing decorative craft projects.

#### Mayku Cast Sheets (S4131937)

- Transparent and food-safe 0.5 mm sheets for making reusable molds
- The sheet's slight flex and non-stick surface ensures that your templates and casts can be easily removed
- · Fully recyclable, partly made from recycled plastic waste

#### Mayku Form Sheets (\$4131938)

- A 0.5 mm versatile, easy-to-use white sheet
- Great for product packaging, prototyping and enhancing decorative craft projects
- · Fully recyclable, partly made from recycled plastic waste

⚠ ALERTS: Small Parts - Not recommended for children under 3 years old.

Cat. No.	Description	Price
S4131937	Cast Sheet	\$47.00/Ea
S4131938	Form Sheet	\$47.00/Ea

# **Practical Soldering Project Kit**

Practice good soldering techniques.

- Working with printed circuit boards is a core skill for every future electronic technician
- Helps students learn good soldering techniques
- Teaches familiarity with a variety of electronic components
- · Provides dynamic results

Cat. No.	Price
S65260	\$16.00/Ea

# Soldering Assist Tools



For use with a soldering tool kit with a digital multimeter.

Cat. No.	Туре	Includes	Price
S97692	Lead-free Solder Tube	Rosin core	\$6.80/Ea
S97693	Desoldering Pump	Anti static tip	\$5.40/Ea

# Permoplast™ Modeling Clay

Non-hardening, stainless modeling clay.

- Nontoxic, antiseptic and harmless
- · Retains plasticity for repeated use
- Can be squeezed, pushed, and pulled
- Four colors: gray, green, red, and brown



Cat. No.	Price
S17307	\$13.75/Pk



# **Primary Science Sensory Tubes**

Clear tubes nurture sensory development and science exploration.

- · Set of four tubes
- Two easy-twist, solid lids hold securely inside
- Four vented lids allow smell or live creature exploration
- Measure 12 x 2.5 in.
- Grades K+

⚠ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.



Cat. No.	Price
S04656	\$45.65/Ea

#### Math

Calculators

## TI-30X IIS Calculator

Combines basic scientific and trigonometric functions. Students can broaden their exploration of math and science concepts.

- Two-line display shows entries on the top line and results on the bottom line
- 11-character display on the top line can be scrolled left or right up to 88 characters
- 10-character display on the bottom line can include a two-digit exponent, fraction display capabilities, operation with mixed fractions and numbers, fraction/decimal conversion, and degrees/radians conversion



- Review and edit current or previous entries, and look for patterns using the scroll feature
- Perform conversions and advanced calculations
- Can be powered by solar and battery

Cat. No.	Description	Quantity	Price
S65241 TI-30X IIS Calculator only		1/Each	\$24.50/Ea
S65241TP Teacher's Kit – Includes ten calculators, one		10/Pack	\$247.00/Pk
	storage box, one keyboard poster		

# **TI-30Xa Calculator**

# Performs 54 commonly used scientific and statistical functions.

- Find common/natural logarithms, antilogarithms, reciprocals, powers, roots, factorials and trigonometric calculations
- Algebraic Operating System (AOS) makes calculating easy
- · Recalls a number, even after being shut off
- LCD displays floating decimal or scientific notation
- Shows eight digits or five digits and a two-digit exponent



# TI-84 Plus Calculators

Preloaded with interactive geometry software and more.

- Extensive graphing and functions like parameter, polar, sequence, choice of graph formats, logic operations, interactive equation solver, matrices and more.
- Data analysis includes scatter plots and statistics
- Share data with the TI-83 Plus
- Mini USB cable enables instant computer connectivity
- Connect to ViewScreen<sup>™</sup> panel or TI-Presenter<sup>™</sup> projection devices
- Powered by four AAA batteries with lithium battery backup
- Automatic Power Down™ (APD) capabilities

#### **Specifications**

- 64 x 96 pixel display with split screen
- 24K available memory, 480K flash ROM
- Clock
- I/O and USB ports

WARRANTY: One year limited





Appropriate for general math, pre-algebra, algebra I and II, geometry, trigonometry, statistics, general science and biology.

- Offers a four-line display to view multiple calculations and answers simultaneously.
   Easily scroll, review and edit current or previous entries.
- MultiView display
- · Toggle key
- Scrolling and editing
- Stacked fractions
- · Standard mathematical notation
- · Scientific notation input and output
- Vertical menus
- Data/list editor

Cat. No.	Price
S96892	\$20.00/Ea





S40649











Description	Quantity	Cat. No.	Price
Fisher Science Education Cups			
Paper Cups, Waxed, 5 oz. (150 mL)	100/Pack	S05166	\$13.50
Paper Cups, 8 oz. (237 mL)	100/Pack	S04200	\$21.75
Plastic Cups, 7 oz. (207 mL)	100/Pack	S04202	\$41.25
Plastic Cups, 16 oz. (473 mL)	50/Pack	S04170	\$20.25
Plastic Cups, Translucent, 2.5 oz. (74 mL)	45/Pack	S04589	\$7.40
Plastic Cups, Translucent, 7 oz. (207 mL)	100/Pack	S04575	\$18.25
Fisher Science Education Office Supplies			
Colored Pencils	12/Pack	S04194	\$5.65
Paper, White, 8.5 x 11 in.	500/Pack	S05176	\$9.05
Pencil, Wax, Black	Each	S04191	\$1.85
Fisher Science Education Glass and Plasticware			
Polypropylene Beaker Set 50 mL, 100 mL, 250 mL, 500 mL, 1,000 mL	Pack	S400563B	\$25.50
Plastic Zip Bags for Science Kits	100/Pack	S05254	\$13.25
Extended Science Classpack and Measure Set	Each	S02651	\$184.00
Poly Funnel	Each	S04580	\$2.85
Soil and Rock			
Aquarium Gravel, 5 lb.	Each	S06534	\$11.00
Fisher Science Education™ Unwashed Sand with Silt for Science Kits, 5 lb.	Each	S05365	\$4.70
Potting Soil, 5 lb.	Each	S05363ND	\$6.20

**fisher** science education



Description	Quantity	Cat. No.	Price
Fisher Science Education Wood Products			
Chopsticks	100/Pack	S04178	\$14.25
Dowel Rod, Dia. x L: 0.5 x 15 in.	Each	S04172	\$3.55
Standard Wood Tongue Depressor	100/Pack	S80332	\$18.25
Miscellaneous			
Fisher Science Education Balloons	144/Pack	S04187	\$42.25
Fisher Science Education Cotton Twine for Science Kits, 420 ft.	Each	S05367	\$5.30
Fisher Science Education Rubber Bands for Science Kits, 0.25 lb.	Each	S05212	\$5.75
Fisher Science Education Foam Tray	Each	S04188	\$0.55
Fisher Science Education Glass Marbles, Assorted Colors	16/Pack	S04581	\$8.75
Fisher Science Education Magnifying Glass, Dia.: 2.5 in.	Each	S04173	\$5.25
Masking Tape, 1 in. x 60 yd., 9 Rolls	Each	S30681	\$32.75
Fisher Science Education Pipe Cleaners, Assorted Colors	1,000/Pack	S04193	\$103.00
Fisher Science Education Plastic Zip Bags for Science Kits, 7 x 8 in., 1 L	100/Pack	S05254	\$13.25
Fisher Science Education Ring Magnet, Dia.: 1.14 in.	Each	S04585	\$2.60
Fisher Science Education Styrofoam Balls, Dia.: 1 in.	12/Pack	S04571	\$15.50
Fisher Science Education Waxed Paper for Science Kits, 75 sq. ft roll	Each	S05379	\$5.05
Fisher Science Education White Vinegar, 32 oz.	Each	S04577	\$9.35

Visit **fisheredu.com/makerspaces** or contact your Fisher Science Education sales representative to access our full selection of products.



## **TI-108 Calculator**

#### TI's most widely used school calculator.

- · Takes standard classroom functions further with percent, square root, memory keys, and a ± key
- · Bright, color-coded keyboard has hard plastic keys

needs b	nel operates in low light and never atteries se helps protect calculator	
Cat. No.	Description	Price
S43195	TI-108 Calculator only	\$14.25/Ea
S43195TP	Teacher's Kit – Includes ten calculators, storage	\$54.75/Ea



## 12-in. Rulers

#### Made of shatter-resistant material.

- · Inch and metric calibrations
- · Clear ruler is shatterproof
- · Flexible and clearview rulers are shatter-resistant
- S90532A and S90532B are sold in packs of 12 with two each of red, green, blue, orange, yellow, and purple



	Cat. No.	Product Type	Material	Quantity	Price
	S90532A	Ruler, Clearview	Shatter Resistant	12/Pk	\$9.65/Pk
	S90532B	Ruler, Flexible	Shatter Resistant	12/Pk	\$18.25/Pk
	S90532C	Ruler, Clear	Shatterproof	1/Ea	\$1.25/Ea

## **Pocket Chart**

#### Holds up to 35 student calculators in clear pockets.

and Spanish

- · Easy-access storage chart uses numbered pockets
- · Made of tough, red nylon
- · Fitted with reinforced grommets for hanging
- Overall: 29 in. x 36 in. (72.5 x 90 cm)
- Pocket: 3.75 in x.4 in (9.38 x.10 cm)

1 Ocket. 3.73 III. X 4 III. (3.30 X 10 CIII)	
Cat. No.	Price
\$40690	\$22.05/Ea



#### Measurement

# United Scientific<sup>™</sup> Precision **Measuring Set**

Contains four high-quality instruments housed in sturdy plastic storage case.

#### **Kit Contents:**

S43608

- · Micrometer caliper: 0-25 mm x 0.01 mm



# Liquid Measurement Kit

Imperial and metric equivalents.

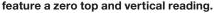


\$118.00/Ea

Cat. No.	Prico
val. Nv.	FIIUG
S95587	\$43.50/Ea

# Eisco™ Single **Sided Meter Sticks**

Single Sided Meter Sticks are constructed from durable wood and



- Measurements are graduated in centimeters and millimeters
- Dimensions: 100 cm x 2.5 cm x 6 mm
- Ideal for the classroom

Cat. No.	Quantity	Price
S88345	1/Ea	\$7.55/Ea
S88346	10/Pk	\$75.00/Pk

# **English/Metric Meter Sticks**

Available with plain or metal ends.

- · Front is ruled in metric units with millimeter increments on both edges
- · Back is ruled in inches with 0.125 in. increments
- Made of pine with a multiple-coat clear lacquer finish for increased durability
- Dimensions: 1 in. x 0.25 in. thick (2.54 x 0.63 cm)

Cat. No.	Includes	Price
S40625	Plain end	\$11.50/Ea
S40626	Brass end	\$9.25/Ea

## **Solid Hard Maple Meter Sticks**

Premium quality, solid North American maple.

- · Lacquered finish for optimum durability
- · Won't dent or warp
- Scaled in millimeters on one side and inches in 0.125 in. increments on the other
- Dimensions: 1.125 in. x 0.31 in. thick (2.85 x 0.8 cm)

Ca	at. No.	Includes	Price
S	32051	Plain end	\$9.90/Ea
S	32052	Metal end and hanging hole	\$16.25/Ea





1023 9 9 9 7 8

# Write 'N Wipe Boards

Double-sided for free drawing or graphing.

- · No-tear plastic construction
- Use with dry wipe markers
- Blank on one side; available with 1 cm grid for mechanical drawing or X/Y axis for graphing on the other

Cat. No.	Includes	Price
S94341	1 cm grid	\$50.75/Pk

# **Eisco™ Plastic Vernier Caliper**

Columbus-type caliper.

- Enables students to read inside, outside or depth measurements
- With thumb wheel for easy motion of jaws
- 0 to 16 cm x 0.1 mm metric scale



# Eisco<sup>™</sup> Vernier Caliper with Case, Carbon Steel

This 6-inch Vernier caliper is perfect for measuring the length, inner diameter, and outer diameter of objects up to 6 inches.



- Made from carbon steel for increased durability
- Features a dual scale to measure on the metric and imperial scales
- Highly precise and accurate measurements up to 6 inches with a 1/128 in. (0.05 mm) Vernier scale
- Laser-engraved graduations that will not fade over time
- Includes a locking screw to ensure precise measurements
- · Plastic case is included

Cat. No.	Price
S27639	\$29.25/Ea

# United Scientific<sup>™</sup> Vernier Calipers

# Graduated in both English and metric.

Designed for monitoring outside, inside, depth and step measurements.

#### Stainless steel (S90343)

- Full length depth gauge
- Friction ruler
- · Sliding lock for gauging



- Max. range: 5 1/2 in. or 140 mm
- Readability: 1/16 in. or 1 mm

#### Plastic (S90344)

- Max. range: 6 in. or 150 mm
- Readability: 1/128 in. or 0.05 mm

Cat. No.	Capacity (Metric)	Material	Price
S90343	140 mm	Stainless Steel	\$15.00/Ea
S90344	150 mm	Plastic	\$12.25/Ea

# Eisco<sup>™</sup> Polypropylene Cup and Scoop Measurement Set

# Ideal for classroom and laboratory use.

- 5 clear polypropylene cups with 25 mL capacity and 5 mL graduations
- 5 natural polypropylene scoops with 2.5 mL capacity
- Scoops can be used to scoop solid and liquid materials
- · Perfect for introductory measurement lessons









NeuLog \_\_\_\_

# Flexible, Fast, and Simple

The NeuLog<sup>™</sup> system combines tiny computer-like sensors with a datalogger and flash memory for an easy and fun classroom experience.

- Compatible with smartphones, tablets, and PC or Mac computers
- Designed to work with future technologies without the need for upgrades
- Adaptable probes and sensors, ideal for any experiment or age level
- Multiple connection options, including Wi-Fi, USB, and stand-alone
- Cost effective, doesn't require expensive hubs or additional software purchase
- Modular plug and play allows connection of sensors in any order with instant readings, minimal time, and no calibration



Visit **fisheredu.com/neulog** to learn more.



# Flexible, Fast, and Simple

#### **How to Get Started**







#### 1. Sensors

Select the type of sensor you need to collect data for your experiments and demonstrations — over 40 sensors are available.

Visit fisheredu.com/neulog for our full sensor listing.

#### 2. Hardware

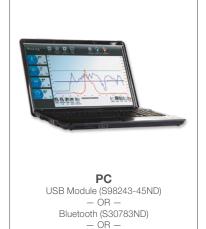
Determine the type of hardware to be used in your classroom and the devices your students will most commonly use, such as PCs, tablets, etc.

#### 3. Connection

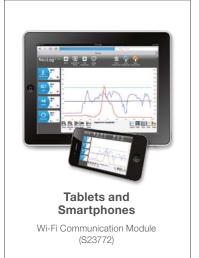
How do you want your sensors to send data to your hardware?

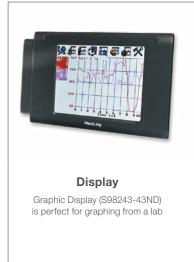
Visit fisheredu.com/neulog for details.

#### **Options**



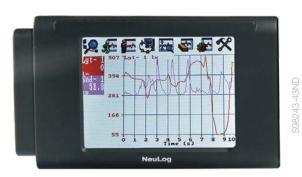
Wi-Fi Module (S23772)







WIFI and Display units require a Battery Unit (S39112)







# Choose from over 20 NeuLog sensors.

#### **NeuLog Modules and Displays**

Description	Cat. No.	Price
Wi-Fi Module	S23772	\$200.00
Digital Graphic Display	S98243-43ND	\$207.00
USB Module	S98243-45ND	\$67.00

Description	Cat. No.	Price
Battery Unit	S39112	\$53.00
Bluetooth	S30783ND	\$137.00

#### **NeuLog Sensors**

Description	Cat. No.	Price
Force Logger Sensor	S98243-9ND	\$200.00
Galvanic Skin Response (GSR) Logger Sensor	S98243-51ND	\$180.00
Heart Rate and Pulse Logger Sensor	S98243-15ND	\$95.00
Light Logger Sensor	S98243-20ND	\$85.00
Oxygen Logger Sensor	S98243-8ND	\$341.00
Panda Multi-Sensor	S13941	\$418.00

Description	Cat. No.	Price
pH Logger Sensor	S98243-24ND	\$139.00
Soil Moisture Logger Sensor	S98243-30ND	\$126.00
Sound Logger Sensor	S98243-22ND	\$120.00
Spirometer Logger Sensor	S98243-28ND	\$149.00
Temperature Logger Sensor	S98243-31ND	\$70.00

Visit **fisheredu.com/neulog** to learn more.



# Advantages of Using Vernier Technology



Frees class time



Easy to use



**Builds student** interest



Creates a deeper understanding



**Supports** standards



Backed by support

# Vernier Lab Books

Enhance your curriculum with award-winning Vernier lab books, which are available as e-books or in traditional print format. Each lab book includes common experiments that incorporate the use of Vernier sensors and software.

All experiments are ready to use or can be customized to match your teaching preferences. Also included are essential instructor information (such as teaching tips), instructions for preparing solutions, suggested answers, and sample data.









Lab Book	Cat. No.	Price
Chemistry with Vernier	S16047ND	\$56.00
Biology with Vernier	S16045ND	\$56.00
Physics with Vernier	S16046ND	\$56.00
Middle School Science with Vernier	S15962ND	\$56.00
Vernier Chemistry Investigations for Use with AP* Chemistry	S16079ND	\$56.00
Advanced Biology with Vernier	S16096ND	\$56.50
Investigating Environmental Science through Inquiry	S16049ND	\$56.00
Advanced Chemistry with Vernier	S16119ND	\$56.00
Elementary Science with Vernier	S40807	\$55.75
•		

Visit fisheredu.com/vernier for a full list of lab books.

<sup>\*</sup> AP and Advanced Placement Program are registered trademarks of the College Board, which was not involved in the production of and does not endorse this product.



# Getting Started with Go Direct Sensors

#### Why Choose Go Direct Sensors?

With over 50 sensors to choose from, the Vernier Go Direct™ family of sensors offers an affordable, high-quality solution for your students to investigate scientific concepts. Go Direct sensors are easy to use—just connect and start collecting data with your device.

#### What You Need to Get Started

#### A Go Direct Sensor

These versatile sensors connect to your device via  $Bluetooth^{M}$  wireless technology or USB.

#### **B** Device

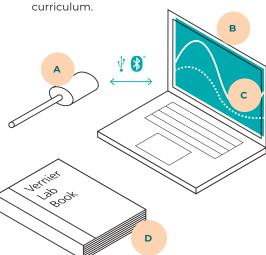
Go Direct sensors connect to a wide variety of devices, including Chromebooks, computers, and mobile devices.

#### C Vernier Graphical Analysis™

Our data-collection app facilitates student understanding with real-time graphs of experimental data.

#### D Lab Book

Step-by-step instructions at your fingertips save valuable time when integrating probeware into your curriculum.



Go Direct Sensors	Cat. No.	Price
Go Direct Temperature	S39731	\$86.00
Go Direct Force and Acceleration	S39711	\$132.00
Go Direct Motion	S39717	\$126.00
Go Direct pH	S39725	\$121.00
Go Direct CO <sub>2</sub> Gas	S39703	\$239.00
Go Direct SpectroVis™ Plus	S16260ND	\$472.00
Go Direct Gas Pressure	S39713	\$110.00
Go Direct Conductivity	S39705	\$132.00
Go Direct O <sub>2</sub> Gas	S39722	\$225.00

Visit fisheredu.com/vernier for a full list of sensors.





LabQuest 3

LabQuest Mini

Go!Link Interface

# Getting Started with LabQuest 3



# Why Choose LabQuest 3?

LabQuest™ 3 is a powerful, easy-to-use, and versatile data-logging solution for STEM students. A full-featured data-collection platform, LabQuest 3 is an excellent choice for laboratories, classrooms, or in-the-field investigations.

#### A LabQuest 3

A large screen and advanced touch screen abilities make it easier for students to collect, graph, and analyze data wherever they are—in the classroom, at home, or in the field.

#### **B** Sensors

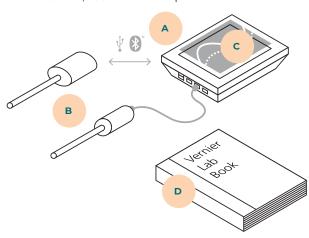
Compatible with all Vernier sensors, LabQuest 3 connects wirelessly to Go Direct $^{\text{\tiny{M}}}$  and LabQuest sensors.

#### C Software

LabQuest 3 has built-in software, LabQuest App, that gives your students real-time graphing and analysis capabilities in one handheld device.

#### D Lab Book

Looking for even more lab ideas? Our popular, award-winning lab books provide hundreds of well-tested, customizable experiments.



LabQuest Sensors	Cat. No.	Price
Stainless Steel Temperature Probe	S16268ND	\$43.25
pH Sensor	S16238ND	\$108.00
Gas Pressure Sensor	S16052ND	\$101.00
Dual-Range Force Sensor	S16050ND	\$131.00
Motion Detector	S405904	\$109.00
Current Probe	S16059ND	\$53.00
Vernier Photogate	S16279ND	\$58.50
Differential Voltage Probe	S16060ND	\$53.00
CO <sub>2</sub> Gas Sensor	S16055ND	\$320.00
O <sub>2</sub> Gas Sensor	S16069ND	\$228.00
Voltage Probe	S16072ND	\$15.25
Interfaces	Cat. No.	Price

S1724327

S16035ND

S16161ND

\$411.00

\$205.00

\$80.00

Visit fisheredu.com/vernier for a full list of sensors.





# Wind Experiment Kits

# Strengthen your students' critical-thinking skills by introducing them to alternative energy solutions to real-world problems.

KidWind and Vernier have teamed up to provide the technology, resources, and support you need for your students to investigate renewable energy.

- Engage your students as they watch power output and energy production data develop in real time.
- Inspire creativity as your students build and test prototypes, test solutions to engineering problems, and optimize designs.
- Measure voltage and current and calculate power with the Go Direct™ Energy sensor.
- Set up activities quickly and easily, providing more time for instruction and exploration.

Product	Cat. No.	Price
KidWind Basic Wind Experiment Kit	S04807ND	\$153.00
KidWind Advanced Wind Experiment Kit	S04798ND	\$199.00
KidWind Mini Wind Turbine with Blade Design	S04818ND	\$79.00
Solar Energy Exploration Kit	S40815	\$95.00
KidWind simpleGEN	S04824ND	\$79.00
KidWind 2V/400mA Solar Panel	S04828ND	\$25.25
Go Direct Energy Sensor	S39721	\$109.00



# Go Direct Spectrometers

## Fast. Compact. Easy to Use.

Go Direct spectrometers connect to your device via Bluetooth™ wireless technology or USB. The free Vernier Spectral Analysis™ app makes it easy to incorporate spectroscopy into your course experiments. The user-friendly software includes analysis features, such as curve fitting and data interpolation.

Spectrometer	Cat. No.	Price
Go Direct SpectroVis™ Plus Spectrophotometer	S16260ND	\$472.00



Go Direct Emissions Spectrometer



Go Direct Fluorescence/ UV-VIS Spectrophotometer



Go Direct SpectroVis Plus Spectrophotometer



Go Direct Visible Spectrophotometer



Go Direct UV-VIS Spectrophotometer

#### **Forensics**

#### **Evidence Collection**

## Blood Typing Anti-Sera

For blood typing using real human blood. The 5 mL vials contain enough antisera for 75 students. Sample will keep over one year with proper refrigeration.



- Materials from human-derived cell lines were found to be negative in tests for Hepatitis B, HIV and EBV
- Includes Anti-A & Anti-B, Anti-Rh and Anti-H Lectin Anti-sera DOT: Non-regulated

**DISCLAIMERS:** For educational use only. Not FDA-approved for clinical use.

Cat. No.	Туре	Price
S06627	Blood Typing Anti-Sera: Anti Rh	\$34.75/Ea
S37733	Blood Typing Anti-Sera: Anti-H Lectin	\$48.00/Ea
S06626	Blood Typing Anti-Sera Type A, B and Rh	\$68.75/Ea
S06625	Blood Typing Anti-Sera: Anti-A and Anti-B	\$33.75/Ea

# United Scientific<sup>™</sup> Ultraviolet Light



Ideal for forensics or illuminating

fluorescent and blacklight-reactive items.

- Includes a built-in LED flashlight
- Requires 4 AA batteries (not included)
- 6 in. 4w blacklight
- Handheld

Cat. No.	Price
S23993	\$11.50/Ea

# Longwave UV Mini Light Source



For use in crime scene search and forensic applications.

- Ideal for theft detection in viewing invisible stains, powders and pastes
- Fully portable, battery-operated longwave UV source housed in rugged ABS plastic
- Peak wavelength: 365 nm

Cat. No.	Price
S99187	\$64.25/Ea

# "Crime Scene Do Not Cross" Barrier Tape

Helps secure the integrity of a crime scene.

- Eye-catching black lettering printed on brilliant yellow polyethylene
- Simply tie one end of the tape around a fixed item, walk around the scene's perimeter, and tie it off where desired
- Warning repeats every 31 in. (78.7 cm)
- 3 in. x 1,000 ft. (7.5 cm x 300 m)

Cat. No.	Price
S69003A	\$32.50/Ea

# Regular Black Magnetic Latent Print Powder and Applicator

Uniform textured powder perfect for fingerprinting applications.

Regular Black Magnetic Latent Print Powder

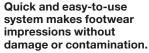
- Unique ballmilling process produces superior ferrous compounds
- Use on any nonferrous surface with magnetic applicators
- Volume: 2.43 oz. (68.9 g)

#### **Applicator**

- Designed to prevent contamination from surface to surface
- Comes with two disposable sleeves
- Allows for easy replacements and protects the wand during use
- Sleeves also allow the powder ball to be released when finished

Cat. No.	Description	Price
S69009A	Tex Magnetic Fingerprint Powder Applicator	\$10.00/Ea

# Bio-Foam<sup>™</sup> Impression Kit



#### How to use:

- Spray the Bio-Foam on a thin coating of Aerosol Dust & Dirt Hardener (sold separately)
- Mix and pour in Shake-N-Cast<sup>™</sup> ready-to-use casting material (sold separately, S99541)
- · Press shoe onto the surface

Cat. No.	Price
S99543	\$13.50/Ea





# **Fingerprinting Supplies**

#### Great for the classroom — clear and accurate fingerprints for forensics projects.

#### Kit-Sized Fiberglass Brush (S99528)

- Specially selected fiberglass filaments are excellent for developing latent fingerprints
- Retains powder and eliminates the constant powder replenishment
- Balanced, machine-knurled, black anodized-aluminum handle in special length to serve as kit replacement
- Supplied in a protective container and cap
- Dia. x L: 0.25 x 2.75 in. (0.6 x 7.0 cm)

#### Black Marabou Feather Duster (\$99529)

- Ideally suited for primary and secondary latent print development with any type of powder
- Each brush comes with a transparent tube and cap for storage
- Handle and ferrule L: 4.63 in. (12 cm); feather L: 4.5 in. (11 cm)

#### Cleaner Towelettes (\$99524)

- Individual, napkin-size disposable-ink-cleaning towels for field or classroom
- Special formulation removes fingerprint ink and grime; mildly fragrant, sanitary
- Pack of 100 in hermetically sealed packages

#### Search™ Fingerprint Ink (S69000C)

- · Free-flowing, densely black ink
- Easily rolled and dries quickly on paper, but remains soft and usable on a slab for days
- Not adversely affected by extreme temperature changes

· Quantity: 2 oz.

#### Supremink<sup>™</sup> Fingerprint Ink (S69000E)

- Easy to dispense, roll out and clean up
- Use just a few drops to roll a thin, even layer of ink
- Produces fingerprints with excellent ridge detail
- Won't dry on ink slab surface; dries immediately on contact with fingerprint card
- Quantity: 4 oz.

#### Flawless Fingerprint Ink Pad (S69000A)

- Stain-free
- Provides thousands of single impressions
- Remove by rubbing fingers together or use a dry paper towel
- Dia. × H: 0.38 × 1.63 in.

#### Search™ Regular Powder Brush (S99531)

 General-purpose, high-quality camel hair brush

# Fingerprint Record Cards-No Imprint (S99521)

- 8 × 8 in. (20.3 × 20.3 cm) applicant cards printed in process blue ink on 110 lb. index card stock Do not include imprint
- Sold in packs of 100

# Redescent<sup>™</sup> Fluorescent Powder (S99527)

- Works especially well on dark or multicolored surfaces — greatly enhancing ridge details when illuminated
- Ultraviolet or blue frequencies (254 to 525 nm) excite fluorescence



• Quantity: 2 oz.

#### "Hi Fi" Silk Black Powder (S99526)

- Latent print powder offers high sensitivity, adherence and reproduction
- Packaged with desiccant capsules to protect against moisture contamination for over 12 months
- · Quantity: 2 oz.

# Regular Black Magnetic Latent Print Powder (S99532)

- Unique ballmilling process produces superior ferrous compounds
- Use on any nonferrous surface with magnetic applicators
- Volume: 2.43 oz.

#### Fingerprint Pattern Wall Chart (S99522)

- Illustrates nine of the most common fingerprint patterns
- Useful reference and teaching aid

Cat. No.	Description	Price	Cat. No.	Description	Price
S99528	Kit-Sized Fiberglass Brush	\$21.50/Ea	S99531	Search Regular Powder Brush	\$9.10/Ea
S99529	Black Marabou Feather Duster	\$23.25/Ea	S99521	Fingerprint Record Cards-No Imprint	\$41.25/Pk
S99524	Cleaner Towelettes	\$25.25/Ea	S99527	Redescent Fluorescent Print Powder	\$20.75/Ea
S69000C	Supremink™ Fingerprint Ink	\$16.75/Ea	S99526	"Hi Fi" Silk Black Powder	\$13.00/Ea
S69000E	Supremink <sup>™</sup> Fingerprint Ink	\$16.50/Ea	S99532	Regular Black Magnetic Latent Print Powder	\$13.50/Ea
S69000A	Flawless Fingerprint Ink Pad	\$14.75/Ea	S99522	Fingerprint Pattern Wall Chart	\$32.75/Ea

# Shake-N-Cast<sup>™</sup> Impression Kit

# Self-contained and pre-measured to eliminate all the mess and guesswork.

- Mixture is always the right consistency
- Simply apply pressure to break the water capsule, shake and knead the pouch for up to two minutes, cut off a corner, and pour into impression



Cat. No.	Price
S99541	\$21.75/Ea

## PrintMatic<sup>™</sup> Flawless Ink Pad

#### Revolutionary new concept for recording fingerprints.

- Specially designed microporous membrane features a pore size of 7 to 10 microns for a higher degree of detail in the fingerprint impression
- Produces over 10,000 rolled and plain impressions
- Capillary action provides just the right amount of ink on its surface
- Less pressure is needed when fingers are rolled across the pad, resulting in clearer, less distorted impressions
- Unique multi-mount, injection-molded, copolymer polypropylene case equipped with a positive, snap-lock lid to protect ink surface from airborne contaminants

Cat. No.	Price
S99191	\$35.00/Ea



# Magnetic Powder Applicator

Ideal for precision dusting of small to medium surface areas.

- Durable, injection-molded applicator features a narrow magnet to fit any size powder container
- Use for processing paper, finished and unfinished wood, nonferrous metals, plastic, glass, vinyl, etc.

metals, plastic, glass, vinyl, etc.	
Cat. No.	Price
S99534	\$33.00/Ea

# Transparent Lifting Tape

Conforms to most surfaces.

- Pressure wound, heat treated and "fish-eye" free
- After lifting powdered prints, tape easily mounts on rigid vinyl or coated paper backing sheets
- · Supplied in a dust-free polystyrene jar
- Roll size: 2 in. x 30 ft. (5 cm x 9.1m)
- · Wound on standard 1 in. core to fit lifting tape dispensers



#### **Activity Kits**

# Forensic Case Study: Murder At Eagle Nest Harbor



A murder in a quiet houseboat community sets the stage for students to test their forensic knowledge. Students will take on the role of a forensic technician as they analyze hair, fiber, fingerprint, blood, and handwriting evidence to help pinpoint the killer.

- Kit provides a unique and complex set of evidence for students to analyze
- Includes enough evidence and reagents for 15 groups to perform an analysis, as well as teacher and student guide master copies
- Aligned to the Next Generation Science Standards (NGSS)
- · Disciplinary core ideas: PS1.A; PS1.B
- Performance expectations: MS- PS1-2
- · Cross cutting concepts: structure and function
- · Engineering practices: developing and using models

**DISCLAIMERS:** Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

Cat. No.	Price
S40780	\$72.00/Ea

## Robbery at Anytown Mall

Students solve the case of a robbery of a designer linen suit as a CSI would.

- Scientific methods employed by students
  - for analysis are observation, experimentation and interpretation
- Both evidence and personal profiles are used to crack the case using deductive reasoning
- Grades 7-12
- Class size: twenty four students (six groups of four)

#### Eight lab activities included are:

- Fabric analysis
- Fingerprint
- Fiber analysis
- Hair analysis

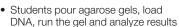
- Handwriting
- Analysis blood typing
- Personal information
- Questions and comments

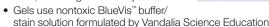
Cat. No.	Price
S06743	\$267.00/Ea

# Lyle and Louise: An Identity Crisis<sup>™</sup> DNA Typing

Introduces gel electrophoresis, Polymerase Chain Reaction (PCR) and Short Tandem Repeat (STR) DNA analysis.

Two women have been identified post mortem as Louise Mondelo. Students determine who the real Louise is, and answer questions about her paternity and others at the scene.





- DNA can be seen as the gel runs, which provides a great visual aid to show DNA migration
- No need for hazardous stains, UV equipment or time-consuming staining procedures
- Class size: six groups of up to five students per group

Cat. No.	Price
S94583	\$197.00/Ea



# Whose DNA Was Left Behind? Experiment Kit

Students simulate DNA fingerprinting and use evidence to narrow down a list of criminal suspects.

Introduces DNA fingerprinting and agarose gel electrophoresis basics.

- Introductory-level exercise with hands-on experimentation
- Illustrates how DNA sequences can be isolated in trace evidence such as blood cells or hair
- Dye simulations function as DNA samples for analysis
- · Class size: ten groups



Lyle and Louise: Strands of Evidence<sup>™</sup> Hair and Fiber Analysis

Provides introduction to evidence handling and comparison, as performed at a murder scene.

A large amount of trace evidence was collected in a cabin during the investigation, and additional trace evidence has arrived from a truck discovered in New Mexico. Students process and analyze samples in their quest to solve the mystery.



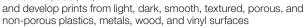
- Hair and fiber trace evidence collected on tape are recovered by dissolving the adhesive and filtering out the samples
- Students use microscopy to characterize the evidence and match to hair and fibers collected from the truck
- Each student produces at least one microscope slide from the evidence provided
- Class size: six groups of up to five students per group

Cat. No.	Price
S94586	\$159.00/Ea

## **Dusting for Fingerprints Kit**

Kit features advanced techniques using carbon, aluminum, magnetic, and fluorescent powders, magnetic applicators, fiberglass brushes, and camel fingerprinting brushes.

- Teacher-developed three station design is efficient and cost effective
- Students perfect their techniques as they prepare fingerprint evidence
- Students use an inquiry approach to determine the best methodologies to stabilize, dust, lift,



- Students use what they have learned to analyze and compare the minutiae of print evidence to solve a crime at the Museum of the Modern Detective
- Allow 4 to 6 hours of lab time to complete all five experiments
- Includes supplies for 24 students working in teams, complete instruction manual, reproducible student procedures, and assessment materials
- Hood, UV light source, and goggles required
- · Requires a special permit for international shipping
- Meets National Standards for grade levels 7 to 12

Cat. No.	Price
S27539	\$426.00/Ea

# Understanding Blood Type Interactions Through Simulated Blood Typing Kit

Use for deeper understanding of the importance of antigen/antibody interactions.

Use simulated blood to determine the ABO/ Rh blood type of four



63

individuals, one in need of transfusion. The result determines which of three potential donors would provide the best match for the patient in need.

- Provides simulation of blood typing procedure
- No toothpicks, stirring or waiting for results
- · Hands-on activities
- · Kit contains materials for 10 groups
- · Kit uses simulated blood only

Cat. No.	Product Type	Price
S96790	Simulated Blood Typing Kit	\$57.25/Ea
S96790R	Simulated Blood Typing Refill	\$29.75/Ea



# Finger Print Classification STEM Kit

Kit allows students to learn about the history of fingerprinting as a tool for identification.



- Analyze data using the system that is used worldwide for classification
- Analyze fingerprints for common characteristics, and create a classification system using those characteristics
- This kit includes an optional activity where students can practice lifting a fingerprint and comparing it to a crime scene print
- Kit contains enough materials for 15 groups
- Teacher's guide and Student Guide copymasters are included

Cat. No.	Price
S29559	\$70.50/Ea

## Dustless Fingerprints Kit

Teaches students how to characterize and investigate different types of prints.



- Includes four experiments
- Learn to characterize fingerprints
- · Investigate direct, latent, and plastic prints
- Use Lugol's iodine method
- Experience cyanoacrylate fuming
- Make fingerprint casts and clay impressions
- Learn how to ink and identify fingerprints

⚠ ALERTS: Warning: Cyanoacrylate fuming requires a chemical fume hood

Cat. No.	Price
S30807	\$172.00/Ea

# United Scientific<sup>™</sup> Ink Chromatography and Forensics STEM Kit

Introduces students to ink chromatography and its application in solving forensics cases.

Students gain experience in creating ink databases, identifying "ink tags" to "date" various inks, and then use them (as professional document examiners do) in solving two mysteries involving document



inks — an apparent suicide note and a forgery case.

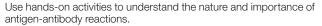
- Covers key concepts including: data analysis, chromatographs, inks and their composition, mixtures, compounds, mixtures, molecules, solubility, affinity, polar substances, Rf values, capillary action, light energy, fluorescence and hypothesis testing
- Accents the scientific method and independent inquiry featuring hands-on learning materials and exciting interactive digital content that can be accessed on a computer, tablet or mobile device
- Provides access to digital PDF content such as: independent investigation inquiry suggestions, background information including content tables and concept, animations, PowerPoint concept presentation (and video version), and comprehensive glossary
- Special typewriter functionality in student activity PDFs allows students to take notes, record experimental data, answer analysis questions and e-mail their teacher
- Correlated to the Next Generation Science Standards

Cat. No.	Price
\$07360	\$87.00/Fa

# Blood Typing Kits with Simulated Blood







- Provide accurate simulation of the blood typing procedure
- No toothpicks, stirring or waiting for results
- · Kit contains materials for 10 groups
- · Kits use simulated blood only

Cat. No.	Description	Includes	Price
S96793	ABO Blood Type Kit	4 simulated blood samples, 1 bottle simulated Anti-A serum, 1 bottle simulated Anti-B serum, 40 blood typing trays, Teacher's manual and student study guide copymasters	\$49.00/Ea
S96792	ABO/Rh Blood Type Kit	4 simulated blood samples, 1 bottle simulated Anti-A serum, 1 bottle simulated Anti-B serum, 1 bottle simulated Anti-Rh serum, 40 blood typing trays, Teacher's manual and student study guide copymasters	\$59.75/Ea
S96792R	Refill	Instructions, MSDS packet	\$36.00/Ea



# **Genetics of Blood Types Using Simulated Blood Kit**

Learn how genetics determine blood type and possible inheritance patterns.

Students use simulated blood to determine the blood type of four unknown samples and then use their results to assist in the resolution of a fictional paternity dispute.



- Provides the most accurate simulation of the actual blood typing procedure
- · No toothpicks, stirring or waiting for results
- · Hands-on activities
- Kit contains materials for 10 groups
- Uses only simulated blood. These activities do not use real blood

Cat. No.	Product Type	Price
S96791	Blood Typing Genetics Kit	\$56.75/Ea
S96791R	Blood Typing Genetics Refill	\$29.50/Ea

# **Blood Splatter Kit and Refill**

For crime scene investigation and criminal identification based on bloodstains.

- Bloodstain pattern analysis helps in identification of suspects and victims
- Students examine the effects of several factors such as height, angle of impact, surface



texture and velocity before impact, and relate them to physical appearance of bloodstains

- Blood Spatter is not corn syrup-based and will dry on material, allowing students to utilize the dried blood on objects for exams or other lab measurements
- Teacher's manual and student study guide copy-masters included
- Contains material for 15 groups of students
- DOT: Non regulated

Cat. No.	Price
S12833	\$159.00/Ea

# Simulated Blood Spatter

For crime scene investigation and criminal identification based on bloodstains.

- Bloodstain pattern analysis helps in identification of suspects and victims
- Students examine the effects of several factors such as height, angle of impact, surface texture and velocity before impact, and relate them to physical appearance of bloodstains
- Blood Spatter is not corn syrup-based and will dry on material, allowing students to utilize the dried blood on objects for exams or other lab measurements
- · Teacher's manual and student study guide copy-masters included
- Contains material for 15 groups of students
- DOT: Non regulated

Cat. No.	Price
S29560	\$61.50/Ea

# Forensic Toxicology Experiment Kit

A student educational kit to analyze crime scene samples for the presence of drugs.



- Identify drugs and toxins in samples collected from crime scenes, victims, and potential suspects
- Uses Enzyme Linked Immunosorbent Assay (ELISA) to analyze simulated crime scene samples for the presence of drugs

Cat. No.	FIICE
S42879	\$162.00/Ea

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Fisher Science Education Team

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# Small Group Learning: Forensic Chemistry Of Unknown Substances

In this experiment students will use observation skills, senses, and chemical tests on a series of known substances, as well as two unknown substances, and then attempt



to identify the mystery substances based on observations and recorded data.

Often when collecting evidence at a crime scene, investigators may recover substances they are unable to identify in the field. Along with evidence such as fingerprints, hair, fibers, etc., there may be traces of unknown chemicals or powders left behind by the perpetrator or perpetrators. Evidence like this is sent to a crime lab for identification.

- Activity includes a Teachers Manual, and Student Guide and Analysis copymasters
- · Includes material for 5 groups
- · Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: PS1.A; PS1.B
- Performance expectations: MS-PS1-2
- · Cross cutting concepts: Patterns
- · Engineering practices: analyzing and interpreting data

 Cat. No.
 Price

 \$40748
 \$32.75/Ea

# Lyle and Louise: Nature's Witness™ Forensic Entomology

Learn how forensic entomologists use maggots to determine the postmortem interval.



The bodies discovered in the cabin were badly decomposed and had large maggot masses on them. Students are introduced to the techniques of forensic entomology and use those techniques to examine insects collected at the scene.

- Examine exemplars of the life stages of two fly species, and develop a key for distinguishing between life stage and species
- Use the key to identify a number of insects collected from the corpses
- Record their information for the entire class to share
- Compare the identification data to a life stage/species development chart and National Weather Service data to determine the postmortem interval for both decedents
- Class size: six groups of up to five students per group

Cat. No.	Price
S94587	\$255.00/Ea

# Forensic Drug Testing: A Simulated Immunoassay

In this activity, students will perform a simulated to detect the cocaine metabolite benzoylecgonine.

Drug testing comes in two forms: presumptive and confirmatory. Because



of the cost associated with confirmatory testing, a presumptive test is often employed first. While there are various forms of presumptive drug testing, two of the most common techniques are immunoassay testing and thin-layer chromatography.

- All urine samples and testing reagents are simulated to avoid the potential hazards of actual biological specimens while still providing realistic results
- Kit contains enough materials for 15 groups
- Teacher's Guide and student study guide copymasters are included
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary core ideas: LS1.A; PS1.A; PS1.B
- Performance expectations: MS-LS1-3; MS-PS1-3
- Cross cutting concepts: systems and system models; structure and function
- Engineering practices: obtaining, evaluating and communicating information

Cat. No.	Price
S40778	\$49.75/Ea

## **Forensic Toxicology**

Students utilize different lab techniques to determine the presence of alcohol, illicit drugs and pain medications present in the simulated urine samples of suspected criminals.

 Various tests include the Marquis Test for Morphine, Simon's test for MDMA, THC Immunoassay, Cocaine Immunoassay, Marquis Test for



Morphine, 6-Monoactylmorphine Test

- Kit includes enough materials for 30 students
- Teacher Manual and Student Study guide copy masters are included
- Aligned to the Next Generation Science Standards (NGSS)
- · Disciplinary core ideas: PS1.A; PS1.B
- Performance expectations: MS-PS1-2; MS-PS1-3; MS-PS1-5; MS-LS1-8; HS-PS1-1; HS-PS1-2; HS-PS1-3
- Cross cutting concepts: Patterns; Energy and Matter; Structure and Function
- Engineering practices: obtaining, evaluating and communicating information; analyzing and interpreting data; developing and using models; planning and carrying out investigations

**DISCLAIMERS:** Next Generation Science Standards is a registered trademark of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

Cat. No.	Price
S40770	\$121.00/Ea



# Looking for Anatomy and Physiology Supplies?

Use this curated list of products to restock your anatomy and physiology classroom, and visit **fisheredu.com** to find even more science education products.







Description	Cat. No.	Quantity
Preserved Specimens		
Formalin Preserved Sheep Brain, Dura Mater Removed	S28069	Each
Formalin Preserved Sheep Brain, Dura Mater Intact	S28065	Each
Formalin Preserved Sheep Heart, Plain	S28067	Each
Formalin Preserved Sheep Brain, Dura Mater Removed	S81894	Each
Formalin Cats, Double Injected, L: 18+ in.	S37653ND	Each
Dissection Supplies		
United Scientific™ Supplies Large Dissecting Tray with Wax	S80769	Each
United Scientific Supplies Plastic Lab Trays	S04545	10/Pack
Dissection Pan	S81136	Each
Eisco™ Dissection Tray	S14000	Each
Eisco Economy 7 Piece Dissecting Set	S14004	Each
Eisco 7 Piece Dissecting Set	S14005	Each
Mall Probe	S08106	Each
Eisco Disposable Forceps	S13946	12/Pack
Specimen Dissecting Forceps	S08101	Each
Models		
Muscle Torso with Head, Includes 3B Smart Anatomy	S17186	Each
Muscular Anatomy Model, 45-Part Master Series, Includes 3B Smart Anatomy	S17168	Each
Muscular Leg, Includes 3B Smart Anatomy	S171381	Each
Muscular Anatomy Model, 23-Part Master Series, Includes 3B Smart Anatomy	S17168A	Each
Muscular Arm, Includes 3B Smart Anatomy	S17136	Each
Skeleton		
Adult Human Skeleton, Includes 3B Smart Anatomy	S17133B	Each
Deluxe Human Skeleton, Includes 3B Smart Anatomy	S171563	Each
Eisco Human Articulated Painted Musculature Skeleton Model, Hanging	S13522	Each
Disarticulated Human Skeleton, Includes 3B Smart Anatomy	S17131B	Each
United Scientific Supplies Life Sized Human Skeleton Model	S82883	Each
Cleaning Supplies		
Fisherbrand™ Sparkleen™ 1 Detergent	S701101	Each
Glassware Drying Rack	S47855	Each
Lab Drying/Sterilizing Ovens	S50172	Each
Laboratory Cleaner	S20715	32 oz.
Fisherbrand™ High Impact Polystyrene (HIPS) Drying Rack and Accessory	S29129	Each

# **Forensic Analysis of Narcotics**

Teaches students about forensic chemistry by analyzing and identifying unknown substances. They can utilize simple chemical tests and reactions,

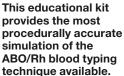


#### then compare results to determine its chemical profile.

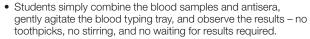
- Forensic chemists are responsible for analyzing and identifying unknown substances, such as drugs and narcotics, that are found at a crime scene
- In this activity, students will learn how forensic chemists can use simple chemical tests and reactions to help determine the identity of an unknown substance
- Students will perform a variety of presumptive tests on an unknown substance plus a series of known controls
- By comparing the test results of the unknown substance to the controls, the most likely identity of the unknown substance will be determined
- Kit contains enough materials for 15 groups
- Teacher's Manual and student study guide copy masters are included

Cat. No.	Price
S27130	\$98.00/Ea

# Distance Learning: ABO/Rh Blood Typing







 Kit contains an Instruction Manual and enough materials for 2 groups of students.

Cat. No.	Price
\$100903	\$24.75/Ea

#### **Health Science**

#### **Vet Tech**

## **Animal X-Rays**

Printed on clear, heavy duty plastic.

- Study similarities and differences between mammals, reptiles, fish, amphibians, and birds
- Examine real X-rays
- Includes: 14 X-rays, 14 matching picture cards, up to 8 x 10 in. (10 x 25 cm), and teacher guide



 Cat. No.
 Price

 \$40797
 \$27.50/Ea

# Animal Foot and Leg Skeleton Specimen

For comparative anatomy and other studies.

 Genuine specimen from cow, pig, and domestic dog skeletons

Cat. No.	Tyne	Price
outi itoi	1390	11100
S06789	Model Dog Lea	\$263 00/Fa

# Veterinary Student Dissection Kit

For first year veterinary students.

 Contains all necessary instruments required for learning anatomy of animals



Cat. No.	Description	Price
S07893	Veterinary Student Dissection Kit	\$35.25/Ea
S07892	Veterinary Student Dissection Kit, Deluxe	\$21.50/Ea

Please see Safety & Security catalog for PPE and infection mitigation products.



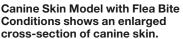
# VetPak-G<sup>™</sup> Dissection Instruments Pack

# An all-in-one kit for veterinary students.

- Addison Brown forceps 4.5in.
- Dissection scissor, 5.5 in., bandage
- Kelly forceps 5 in., curved
- Mayo Hegar forceps, 5.5in.
- Dissecting stitching scissors, 4.5in.
- · Reflex hammer
- Pen light
- Thermometer
- · Instruments holster with waist belt
- Strong carrying case



# Canine Skin Model with Flea Bite Conditions



- The Canine Skin Model is an enlarged cross-section of canine skin. One side features normal skin anatomy extending from the epidermis down to the layer of subcutaneous fat. The reverse side demonstrates the progressing changes of a flea bite from wheal to infected pustule.
- Model size: 5.75 x 4.5 x 3 in.
- Base: 6.5 x 5 in.





### Canine Ear Model

This two-sided model depicts normal and infected ear structures.

- This two-sided Canine Ear Model, average size
- Normal side with cochlea, auditory ossicles, auditory tube, tympanic bulla, middle ear cavity, tympanic membrane, horizontal canal, vertical canal, auricular cartilage, pinna and temporalis muscle
- Abnormal side illustrates inflamed inner ear structures, inflammatory exudate in tympanic bulla, ear canal with partial occlusion from cellular hyperplasia, inflammatory exudate and an inflamed outer ear.
- Model size: 4.75 x 2.75 x 2 in.

Cat. No. S00557





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## **Canine Parasite Model**

Shows in great detail the 3 most common external parasites a mite, flea, and tick.



- A parasite is an organ that grows, feeds, and is sheltered on or in another type of organism while contributing nothing to the survival of its host. It is fairly common for our pets to become the unknowing hosts to a number of parasites.
- This model shows the three most common external canine parasites, a mite, a flea and a tick, in great detail
- Dimensions: 10.4 x 6.25 in.
- Base: 10.4 x 6.25 in.



# **General Parasitology Slides**

Domestic and tropical parasites of humans and animals. Kit contains 50 microscope slides, including:

1. Entamoeba histolytica, amebic dysentery; 2. Leishmania donovani, causes Kala-Azar; 3. Trypanosoma gambiense, sleeping disease; 4. Trypanosoma cruzi, Chagas disease; 5. Plasmodium falciparum, human malaria; 6. Plasmodium berghei; 7. Plasmodium sp., malaria melanemia in human spleen; 8. Toxoplasma gondii, causing toxoplasmosis; 9. Babesia canis; 10. Sarcocystis sp., section of muscle showing the parasites in Miescher's tubes; 11. Nosema apis, honey bee dysentery; 12. Monocystis agilis, from earthworm seminal vesicle; 13. Eimeria stiedae, causes coccidiosis in rabbit liver; 14. Fasciola hepatica, beef liver fluke: 15. Fasciola: 16. Fasciola, ova: 17. Fasciola, miracidia; 18. Schistosoma mansoni, bilharziasis; 19. Schistosoma; 20. Schistosoma mansoni, ova in faeces; 21. Taenia or Moniezia, tapeworm; 22. Taenia pisiformis, dwarf tapeworm; 23. Taenia saginata, tapeworm, proglottids; 24. Taenia saginata, ova in faeces; 25. Hymenolepis nana, proglottids; 26. Echinococcus granulosus, dog tapeworm; 27. Echinococcus, cyst wall and scolices; 28. Ascaris lumbricoides, roundworm of human; 29. Ascaris lumbricoides, adult

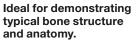


larvae; 36. Heterakis spumosa, intestinal parasite of rat; 37. Ixodes sp., tick, adult; 38. Dermanyssus gallinae, chicken mite; 39. Acarapis woodi, varroa, parasitic mite of honey bee; 40. Sarcoptes scabiei, section of diseased skin with parasites; 41. Stomoxys calcitrans, stable fly; 42. Anopheles, malaria mosquito; 43. Culex pipiens, common mosquito; 44. Anopheles, larva; 45. Culex pipiens, larva; 46. Culex pipiens, pupa; 47. Cimex lectularius, bed bug; 48. Pediculus humanus, human louse; 49. Pediculus humanus, louse eggs attached to the hair; 50. Ctenocephalus canis, dog flea





# Disarticulated Bovine Cow Skeleton

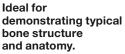


- Complete and non-assembled skeleton bones without pre-drilling.
- Ideal for demonstrating typical bone structure and anatomy.
- Small bones can be loose.
- Does not include building instructions.



Cat. No.	Includes	Weight (English)	Price
S00559	Without Horns	90.79 lb.	\$7,829.00/Ea
S00560	With Horns	88.18 lb.	\$9,392.00/Ea

# Disarticulated Pig Skeleton



Complete and non-assembled skeleton bones without pre-drilling.

Ideal for demonstrating the typical bone structure and anatomy. Small bones can be loose. Does not include building instructions.

**Taxonomy:** Domestic Pig (*Sus scrofa domesticus*) Class: Mammals; Order: Even-toed ungulates; Family: Real pigs; Diet: Omnivore; Size: Approx. 120 to 180 cm; Weight: Approx. 50 to 150 kg; Age: 8 to 12 years; Skeleton: Approx. 223 individual bones

Cat. No.	Gender	Price
S00561	Female	\$3,893.00/Ea
S00562	Male	\$4,671.00/Ea

# Disarticulated Horse Skeleton

# Ideal for demonstrating typical bone structure and anatomy.

Complete and non-assembled skeleton bones without pre-drilling. Ideal for demonstrating the typical bone structure and anatomy. Small bones can be loose. Does not include building instructions.

**Taxonomy:** Horse (*Equus ferus caballus*); Class: Mammals; Order: Odd-toed ungulates; Family:

Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones

Cat. No.	Gender	Price
S00563	Female	\$7,832.00/Ea
S00564	Male	\$9,394.00/Ea



# Domestic Pig Foot Specimen

# Real bone specimen of the foot of a domestic pig.

All bones from the heel bone to the four toes are fully prepared and connected in an anatomically correct manner

**Taxonomy:** Domestic Pig (Sus scrofa domesticus); Class: Mammals; Order: Even-toed ungulates; Family: Real pigs; Diet: Omnivore; Size: Approx. 120 to 180 cm; Weight: Approx. 50 to 150 kg; Age: 8 to 12 years; Skeleton: Approx. 223 individual bones



Cat. No.	Price
S00565	\$425.00/Ea

# Horse Foot and Hoof Specimen

# Prepared, real, hind horse foot up to the tarsal joint.

The individual bones are rigidly connected to each other. The hoof capsule is supplied separately with the foot.

**Taxonomy:** Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones



# Horse Carpal Bones Specimen

Prepared, real, front horse foot up to the carpal joint.

The individual bones are rigidly connected to each other.
The hoof capsule is supplied separately with the foot.

**Taxonomy:** Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates;

Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton:

Approx. 252 individual bones

Cat. No.	Price
S00567	\$533.00/Ea



# **Bovine Foot Specimen**

Can be used for comparative anatomy.

Bovine foot (Bos taurus) specimen for use in comparative biology

Cat. No.	Price
S00568	\$667.00/Ea



# Dog Leg Specimen

Prepared, real front or hind leg of a dog.

**Note:** front or hind leg chosen at random. Taxonomy: Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones

Cat. No.	Price
S00569	\$497.00/Ea



# **Disarticulated Sheep Skeleton**

Prepared, real skeleton of an adult domestic sheep consisting of approximately 215 individual bones.

Complete and non-assembled skeleton without pre-drilling. Small bones can be loose. It represents a typical example

of the order of even-toed ungulates. You can choose between a male or a female sheep. Does not include building instructions.

Taxonomy: Domestic Sheep (Ovis aries); Class: Mammals; Order: Even-toed ungulates; Family: Bovids; Diet: Herbivore; Size: Approx. 100 to 190 cm; Weight: Approx. 50 to 100 kg; Age: 10 to 18 years; Skeleton: Approx. 215 individual bones

Cat. No.	Gender	Price
S00570	Female	\$5,019.00/Ea
S00571	Male	\$6,867.00/Ea

# **Horse Spinal** Column

Real horse spine with cervical, thoracic. lumbar, and sacrum.

**Taxonomy:** Horse (Equus

ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones

Cat. No.	Mounting	Price
S00572	Flexible	\$1,589.00/Ea

# **Horse Spinal** Column and Head

Real horse spine with cervical,

thoracic, lumbar, sacrum, and head.

**Taxonomy:** Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 vears: Skeleton: Approx. 252 individual bones

Cat. No.	Mounting	Price
S00573	Rigid	\$6,587.00/Ea

#### **Horse Sacrum**

Real sacrum of a horse to demonstrate typical bone structure and anatomy.

Taxonomy: Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx.



Cat. No.	Price
S00574	\$1,480.00/Ea

## **Horse Sternum**

Real sternum of a horse to demonstrate the typical bone structure and anatomy.

Taxonomy: Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones



S00575	\$1,500.00/Ea
Cat. No.	Price

## **Horse Pelvis**

Real pelvis of a horse to demonstrate the typical bone structure and anatomy.

Taxonomy: Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore;

Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones

Cat. No.	Price
S00576	\$1,485.00/Ea



# **Dog Spinal Column**

Real dog spine with cervical, thoracic, lumbar, sacrum, and head. Flexibly mounted.



Taxonomy: Domestic Dog

(Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones

Cat. No.	Mounting	Price
S00577	Flexible	\$654.00/Ea

# **Dog Spinal** Column and Head

Real dog spine with cervical, thoracic, lumbar,

sacrum, and head. Rigidly mounted.

Taxonomy: Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones

Cat. No.	Mounting	Price
S00578	Rigid	\$969.00/Ea

## **Dog Sacrum**

Real sacrum of a dog to demonstrate the typical bone structure and anatomy.

Taxonomy: Domestic Dog (Canis lupus familiaris): Class: Mammals: Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones



Cat. No.	Price
S00579	\$608.00/Ea

# **Dog Sternum**

Real sternum of a dog to demonstrate the typical bone structure and anatomy.

Taxonomy: Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones



Cat. No.	Price
S00580	\$616.00/Ea

## **Dog Pelvis**

Real pelvis of a dog to demonstrate the typical bone structure and anatomy.

Taxonomy: Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual



Cat. No.	Price
S00581	\$608.00/Ea

## **Mammalian Femur**

Real femur of a mammal to demonstrate the typical bone structure and anatomy.



Cat. No.	Price
S00582	\$747.00/Ea

## **Mammalian** Humerus

Real humerus of a mammal to demonstrate the typical bone structure and anatomy.



Cat. No.	Price
S00583	\$533.00/Ea

## Horse Metacarpal **Bones**

Ideal for demonstrating the typical bone structure and anatomy.

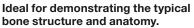


- · Complete and non-assembled forelimb of a horse without pre-drilling.
- Ideal for demonstrating the typical bone structure and anatomy.
- Small bones can be loose.
- · Does not include building instruction.

Cat. No.	Price
S00584	\$416.00/Ea



## **Horse Metatarsal Bones**



- Complete and non-assembled forelimb of a horse without pre-drilling.
- Ideal for demonstrating the typical bone structure and anatomy.
- Small bones can be loose.
- · Does not include building instruction.

Cat. No.	Price
S00585	\$416.00/Ea

## Front and Hind Legs of a Horse

Real bone specimens from an adult horse.

- Real bone specimens from an adult horse.
- Each front leg up to and including the shoulder blade and each hind leg up to the hip joint.
- Rigidly mounted on a base plate

Taxonomy: Horse (Equus ferus caballus); Class: Mammals; Order: Odd-toed ungulates; Family: Horses; Diet: Herbivore; Size: Approx. 50 to 200 cm; Weight: Approx. 100 to 1200 kg; Age: Approx. 20 to 50 years; Skeleton: Approx. 252 individual bones

Cat. No. Mounting **Price** S00586 Rigid \$1,775.00/Ea

## **Canine Vertebrae** Column Model

Features five lumbar vertebrae and discs, caudal (tail) vertebrae and sacrum.

The Canine Vertebral column of average size features five lumbar vertebrae and discs, caudal (tail) vertebrae and sacrum.

- 5 Pieces
- Model size: 8 x 2 x 2 in.
- Base: 8.5 x 5 in.

Cat. No. S00587 \$110.00/Ea

#### **Canine Knee**

#### For anatomy demonstrations.

Average size knee with femur, fibula, patella and tibia bones; lateral and medial meniscus; anterior and posterior cruciate ligaments; plus six more ligaments and tendons.

- Model size: 2 x 3.5 x 7 in.





## **Canine Shoulder** Model

#### For anatomy demonstrations.

Canine Shoulder model shows an Average size shoulder with scapula, humerus, biceps brachii tendon, coracobrachialis tendon, lateral glenohumeral ligament, medial glenohumeral ligament and transverse humeral ligament.

- Model size: 11.12 x 3 x 2 in.
- Base: 6.5 x 5 in.

S00589 \$121.00/Ea

## **Canine Pelvis** (Hip) Model

#### For anatomy demonstrations.

Average size pelvis features both normal and osteoarthritic bone, body of ilium, greater trochanter, head in acetabulum, herniated disc, neck of femur, nerve, sacrum, and third trochanter.

- Model size: 7 x 5.5 x 11 in.
- Base: 6.5 x 5 in.

Cat. No. S00590 \$137.00/Ea

## **Canine Elbow**

#### For anatomy demonstrations.

The Canine Elbow model shows a healthy left elbow of average size includes: humerus, radius and ulna bones; plus six ligaments.

- Model size: 9.5 x 1.75 x 7.5 in.
- Base: 8.8 x 6.25 in.

S00591 \$109.00/Ea

## Canine **Osteoarthritis Knee Model**

#### Illustrates degenerative joint disease.

Set of four life-size models illustrate degenerative joint disease (osteoarthritis). Disease-free (normal) knee also includes additional important structures including ligaments, tendons and patella. The other three models demonstrate articular surface degeneration and the

• Model size: 2 x 3.5 x 7 in. (each)

development of osteophytes (bone spurs).

• Base: 10 5/8 x 6.25 in.

Cat. No. S00592 \$140.00/Ea





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## **Feline Hip Model**

#### **Demonstrates degenerative** osteoarthritis.

- Average size feline pelvis features: femur, vertebrae L6, L7, caudal (tail), and spinal cord. Osteophytes (bone spurs) indicate degenerative osteoarthritis of the hip joint.



## **Feline Elbow-Shoulder** Model

Features normal bone and osteoarthritic changes to joints.

Average size feline elbow and shoulder features: normal bone and osteoarthritic changes to joints. Model includes the following bones: scapula, humerus, radius, ulna and nine important ligaments and tendons.

- Model size: 7.75 x 4 x 7/8 in.
- Base: 6.5 x 5 in.



## **Feline Heart** and Lung Model

#### **Demonstrates an infestation** of a single heartworm.

Average feline heart and lungs infested with a single heartworm (dirofilaria immitis). Cut-away view demonstrates structures in the heart (right ventricle,

pulmonary trunk, pulmonary arteries) and lungs where adult-stage heartworms are normally found. The cut section of the lung indicates patches of heartworm-induced irritation.

- Model size: 3.75 x 2.75 x 2.5 in.
- Base: 6.5 x 5 in.

Cat. No.	Price
S00595	\$95.00/Ea

## **Canine Heart** and Lung Model

#### **Demonstrates an infestation** of a single heartworm.

- Average canine heart and lungs infested with heartworms (dirofilaria immitis)
- Cut-away view demonstrates structures in the heart (right ventricle, pulmonary trunk, pulmonary arteries, and lungs) where adult-stage heartworms are normally found.

Cat. No.	Pric
S00596	\$91.00/E

## **Dog Skeleton**

Prepared from real bones that have been reassembled and mounted on a wooden base.



CANINE HEART/LUNG



- The bones of the rigidly mounted skeleton are firmly attached to each other for better stability. The flexibly mounted skeleton is particularly suitable for learning and understanding the locomotory system of a dog. The legs of the dog are movably attached to its
- Length: Approx. 55 to 75 cm
- Weight: Approx. 4.5 to 5.5 kg

**Taxonomy:** Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones

#### **Dentition formula:**

- Number: 42
- Incisors (I): 3/3
- Canines (C): 1/1
- Premolars (P): 4/4
- Molars (M): 3/3

Cat. No.	Price
900507	\$2.072.00/Ea



#### **Cat Skeleton**

Prepared from real bones that have been reassembled and mounted on a wooden base.



#### Cat Skull

#### Real skull of an adult domestic cat.

The shape of the skull may vary depending on the breed. Length: Approx. 10 cm

Taxonomy: Domestic Cat (Felis catus); Class: Mammals; Order: Predators; Family: Cats; Diet: Carnivore; Size: Approx. 50 to 60 cm; Weight: Approx. 2 to 8 kg; Age: 10 to 18 years; Skeleton: Up to Approx. 240 individual bones



#### **Dentition formula:**

- Number: 30
- Incisors (I): 3/3 • Canines (C): 1/1
- Premolars (P): 3/2
- Molars (M): 1/1

Cat. No.	Price
S00600	\$375.00/Ea

#### Rabbit Skeleton

Prepared, real skeleton of an adult domestic rabbit.





- Consists of about 210 individual bones, which are rigidly connected to each other. It represents a typical example of the order of lagomorphs.
- Mounted on a base plate.
- Dimensions: Approx. 48 x 11 x 27 cm
- Weight: Approx. 3 kg

**Taxonomy:** Domestic Rabbit (Oryctolagus cuniculus var. domestica); Class: Mammals; Order: Lagomorphs; Family: Leporids; Diet: Herbivore (browser); Size: Approx. 20 to 45 cm; Weight: Approx. 1 to 4 kg; Age: Approx. 10 years; Skeleton: Approx. 210 individual bones

#### **Dentition formula:**

- Number: 28 Incisors (I): 2/1
- Premolars (P): 3/2 • Molars (M): 3/3
- Canines (C): 0/0

Cat. No.	Price
S00602	\$2,754.00/Ea



- The bones of the rigidly mounted skeleton are firmly attached to each other for better stability. The flexibly mounted skeleton is particularly suitable for learning and understanding the locomotory system of a cat.
- Length: Approx. 50 to 70 cm
- Width: Approx. 27 to 35 cm
- Height: Approx. 40 to 60 cm
- Weight: Approx. 3.6 to 4.5 kg

Taxonomy: Domestic Cat (Felis catus); Class: Mammals; Order: Predators; Family: Cats; Diet: Carnivore; Size: Approx. 50 to 60 cm; Weight: Approx. 2 to 8 kg; Age: 10 to 18 years; Skeleton: Up to Approx. 240 individual bones

#### **Dentition formula:**

• Number: 30 Incisors (I): 3/3 • Premolars (P): 3/2

• Molars (M): 1/1

• Canines (C): 1/1

Cat. No.	Price
S00598	\$2,637.00/Ea

## Dog Skull

#### Real skull of an adult domestic doa.

• Skull length: Approx. 22.5 cm

Taxonomy: Domestic Dog (Canis lupus familiaris); Class: Mammals; Order: Predators; Family: Dogs; Diet: Carnivore; Size: Approx. 20 to 85 cm; Weight: Approx. 1 to 70 kg; Age: 7 to 18 years; Skeleton: Approx. 280 individual bones



#### **Dentition formula:**

Number: 42

• Premolars (P): 4/4

Incisors (I): 3/3

 Molars (M): 3/3 • Canines (C): 1/1

Cat. No. S00601 \$415.00/Ea



#### **Rabbit Skull**

Bone specimen of the skull of an adult domestic rabbit.

- The typical features of a rabbit skull, fine bone lamellae, are clearly visible.
- Domestic Rabbit (Orvctolagus cuniculus var. domestica) Length: Approx. 10 cm

Taxonomy: Class: Mammals; Order: Lagomorphs; Family: Leporids; Diet: Herbivore (browser); Size: Approx. 20 to 45 cm; Weight: Approx. 1 to 4 kg; Age: Approx. 10 years; Skeleton: Approx. 210 individual bones



#### Dentition formula:

• Number: 28

S00599

- Incisors (I): 2/1
- Canines (C): 0/0
- Premolars (P): 3/2
  - Molars (M): 3/3

Cat. No.

### Chicken Skull

A particularly striking feature is large eye sockets.

· Length: Approx. 6 cm

Taxonomy: Chicken (Gallus gallus domesticus); Class: Birds; Order: Landfowl; Family: Phasianids; Diet: Omnivore; Size: Approx. 30 to 40 cm; Weight: Approx. 2 to 5 kg; Age: Approx. 4 to 8 years



Cat. No.	Price
S00603	\$372.00/Ea

#### **Canine Jaw Model**

Depicts healthy teeth on the right side and diseased and damaged teeth on the left.

- · Featured pathologies: fractured canine, periodontal disease, tartar accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth, missing premolar and (canine) gingival recession.
- · Jaws open, close and separate for closer study.
- Model size: 2.75 x 2 x 1.1 in.





\$416.00/Ea

## **Feline Jaw Model**

Depicts healthy teeth on the right side and diseased and damaged teeth on the left.

- · Featured pathologies: fractured canine, periodontal disease, tartar accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth, missing premolar and (canine) gingival recession.
- Jaws open, close and separate for closer study.
- Model size: 2.75 x 2 x 1.1 in.



## **Clear Canine** Jaw Model

Hinges and shows the roots of all teeth.

Healthy canine hinged jaw showing the roots of all teeth (incisors, canine, premolars, molars).

- Jaws open, close and separate for closer study.
- Model size: 2.75 x 2 x 1.1 in.



### **Clear Feline** Jaw Model

Hinges and shows the roots of all teeth.

Healthy feline hinged jaw showing the roots of all teeth (incisors, canine, premolars, molars).

- Jaws open, close and separate for closer study.
- Model size: 2.75 x 2 x 1.1 in.



#### **Instruments & Kits**

## **Diagnostic Pen Liaht**

For examining eyes.

- Reliable robust construction
- · Bright illumination
- · Compact size
- 5 in. length









## Heavy Duty Cutter

For cutting larger bones for cross sectional bone analysis.



- · Made of stainless steel
- Features single or double spring settings
- With side cutting action
- Length: 17.7 cm (7 in.)

Cat. No.	Price
S08105	\$26.00/Ea

## Hemostatic Forceps, Curved

Feature offset tips for accessing hard-to-reach areas during dissection.



Cat. No.	Description	Price
S72120	Hemostatic Forceps, Curved	\$5.75/Ea

# Hemostatic Forceps, Straight



Feature stainless steel precision points.

Cat. No.	Description	Price
S72119	Hemostatic Forceps, Straight	\$5.75/Ea

## Reflex Hammer



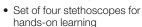
A proper tool for testing the integrity of the patellar tendon and other reflexes.

• Rubber Head, Stainless Steel Handle

Cat. No.	Description	Price
S72118	Reflex Hammer	\$7.60/Ea

## **Stethoscopes Set**

Used to monitor heart rate or measure blood pressure.



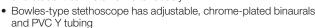
• Multiple colors





Listen to vital signs.

- Ideal for the classroom, especially in the study of respiration and circulation
- Teaching stethoscope has 3.8 cm Bowles chestpiece and two sets of binaurals joined together so the teacher and student can listen simultaneously



⚠ ALERTS: This item is intended for educational purposes only.

Cat. No.	Product Type	Includes	Price
S99444	Bowles Type Stethoscope	Adjustable chrome plated binaurals, PVC Y-tubing	\$14.00/Ea
S11008	Dual Earpiece-Teaching Stethoscope	3.8 cm Bowles chestpiece, two sets of adjustable chrome plated binaurals, PVC Y-tubing	\$45.50/Ea

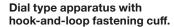
## Baseline<sup>™</sup> Fingertip Pulse Oximeter

Measures and displays real-time pulse and SpO<sub>2</sub> level.

- Compact
- Lightweight
- · Large, easy-to-read display
- Automatically shuts off when not in use
- · Comes with wrist lanyard

Cat. No.	Price
S20764	\$69.75/Ea

## Eisco<sup>™</sup> Dial Type Blood Pressure Apparatus

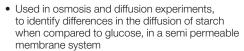


- High quality inflammation rubber bulb
- Includes carrying case

Cat. No.	Price
S23638	\$35.50/Ea

## **Glucose Test Strips**

Used in biological courses for detection of glucose concentrations.





Concentration ranges: 0, 100, 300, 1,000 and 3,000 mg/dL

Cat. No.	Price
S80218	\$30.25/Ea

Please see Safety & Security catalog for First Aid supplies.



## **Advanced Manual Inflate Large Cuff Blood Pressure Monitor**



Fast and accurate blood pressure measurement.

- Offers two innovative features, the Pressure Rating Indicator<sup>™</sup> and Irregular Heartbeat feature
- Pressure Rating Indicator provides a snapshot of your blood pressure classification based on the measurements, and eliminates the guesswork

Cat. No.	Price
S37585	\$69.75/Ea

## **Urinalysis Using Simulated Urine**

One of the oldest medical diagnostic tests performed.

#### Students will:

- · Use simulated urine to avoid the unpleasantness of using the real thing
- Examine simulated urine factors such as pH, color and clarity, as well as test for the presence or absence of proteins, glucose and
- · Examine samples microscopically to determine if any crystals are present in the sample

COMPLIANCE: This package conforms to 49CFR 173.4

Cat. No.	Description	Includes	Price
S98668A*	Urinalysis Using Simulated Urine Kit	Teacher's guide, student study guide copymasters, kit with simulated urine samples (250 mL each of patient X, patient Y, patient Z, control), Benedict's reagent (25 mL), biuret solution (25 mL), sulkowitch's reagent (25 mL), pt Hest strips, microscope slides, coverslips, graduated plastic cups (30 mL), graduated pipets (1 mL)	\$80.00/Ea
S37732	Simulated Urine Refill	4 x 250 mL each of simulated urine samples: Patient X, Patient Y, Patient Z, and Control	\$34.75/Ea

## Artificial Urine

#### Simulated urine.

- · Quantity: 500 mL
- · To identify variety of physiological conditions with urine test strips; Exception: S07903 (Artificial Urine with Ketone) is not designed for use with test strips.



Gat. No.	Product Type	Price
S07900	Artificial urine with Vitamin C	\$24.00/Ea
S07901	Artificial urine with Phosphates	\$24.00/Ea
S07902	Artificial urine with Albumin	\$24.00/Ea
S07903	Artificial urine with Ketone	\$24.00/Ea
S07904	Artificial urine with Glucose	\$24.00/Ea
S07905	Artificial urine Set of 4 (Control, with phosphates,	\$99.00/Ea
	albumin, glucose)	
S07906	Artificial urine Control	\$16.00/Ea

## **Kidneys and Blood Filtration**

Learn the role of the kidney in blood filtration and waste removal.

- Discover the many functional tasks performed by nephrons
- Students will create an artificial kidney model to filter simulated blood
- · Visually determine if filtration of the simulated blood has occurred
- Chemically test the resulting filtrate to detect any waste material removed by the kidney
- · Contains enough materials for 15 groups

#### Kit Includes:

- Simulated unfiltered blood (100 mL)
- Dialysis tubing (15 pieces)
- 15 plastic cups
- 15 pipets (1 mL)
- · 30 salt test strips
- 30 urea test strips
- Cat. No. S98651\*\*\* \$67.00/Ea

## **Tallquist** Hemoglobin Scale

Allows quick assessment of blood hemoglobin levels.

Apply blood and allow to absorb into one of the test

papers. Compare the color scale to determine the percent and weight of hemoglobin in blood under normal and anemic conditions.

- Includes color chart and 150 test papers
- Grade 9-14

⚠ ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
S06452	\$35.25/Ea



## **Blood Typing with Saliva Kit**

Students use their own saliva to determine their ABO blood type from the antigen secretors found in their saliva.

- Provides real antisera for demonstrating true ABO blood typing agglutination reactions
- Enhanced instructor's manual with background information, reproducible student protocols and worksheets, and complete answer keys



- Ideal for students in advanced biology, physiology, genetics, forensics, or biochemistry
- Antisera and blood cells are perishable, refrigeration prolongs shelf life
- Materials sufficient for up to 50 tests
- Grades 9-14
- · Class size: 24 students

Materials must ship 2nd day air on ice in summer months. Reply card items are only shipped within the continental United States. Cells should be used within 20 days.

⚠ ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
S25080	\$242.00/Ea

## ABO Blood Typing Kit (with Red Blood Cells)

Learn the genetic inheritance patterns of blood types.

- This kit includes preserved red blood cells and eliminates the need to draw blood samples from students.
- blood samples from students.Kit should be ordered two weeks before needed.
- Contains both red blood cells and the antiserum needed to demonstrate real ABO blood typing agglutination reactions
- Students use real red blood cells provided, eliminating the need to draw blood samples
- Perform, compare, and contrast slide and test tube blood typing
- Red cells have a life expectancy of at least 20 days after arrival, but must be kept refrigerated
- Grades 9-14
- · Class size: 36 students

 $ilde{\Delta}$  ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
S17020	\$411.00/Ea

## **Blood Typing**

Learn about determining blood types.

Blood typing is essential for blood transfusion and for managing other medical conditions.



#### The activity includes:

- Overview of blood typing
- Hands-on determination of simple simulation reactions for blood ABO typing
- Known and control samples for students to perform agglutination reactions to assign the various blood types
- Class size: 10 groups
- · No blood or blood products are used in this experiment

Cat. No.	Price
S94671	\$85.00/Ea

## ABO/Rh Blood Typing Tray

Contains depression wells to perform ABO and Rh blood-typing.



- Washable and reusable
- Quantity: 100/Pk.

⚠ ALERTS: DOT: Non regulated

Cat. No.	Price
S37734	\$47.75/Ea

## **ABO Blood Simutype Kit**

Use safe simulated human blood and antisera to study genetic inheritance of ABO blood types.

Blood typing has always been an important biology exercise because it introduces a number of key concepts. But the concern over AIDS, plus the general trend away from "invasive" laboratory work, has led to many schools to drift away from



79

including this vital exercise. This kit provides an opportunity for schools to re-introduce blood typing studies.

- Students use genetic information to answer paternity questions, determine genotypes and phenotypes of blood donors, and determine possible donors and recipients for blood transfusions
- · Ideal for biology, immunology, genetics, or forensics study
- Grades 7-12
- Class size: 24 students (with multiple reuses)

⚠ ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
S19316	\$152.00/Ea



## Blood Typing Anti-Sera, Anti-A, Anti-B and Anti-Rh

Use for blood typing of real human blood. Each vial contains enough antisera for 75 students. Refrigeration recommended until used. Materials from human-derived cell lines were found to be negative in tests for Hepatitis B, HIV and EBV.

- Available in 5 mL vials that contain enough antisera for 75 students
- Freeze-dried samples can be kept without refrigeration
- Shows negative results for Hepatitis
   B, HIV and EBV when tested with human-derived cell lines

Cat. No.	Includes	Price
S07802	Anti-A and anti-B	\$39.00/Ea
S07803	Type A, B and Rh	\$79.00/Ea
S07804	Anti-Rh	\$39.25/Ea

## Determination of Cholesterol Using Simulated Blood Kit

Allows students to measure cholesterol levels of four patients, then recommend individual treatment plans after analyzing their results.



- Cholesterol levels can have a major impact on your health and your risk of heart disease
- In this activity, students will measure the total cholesterol level for four patients using test strips and simulated blood
- After analyzing their results and the lifestyles of each patient, students will recommend treatment plans to help the patients lower their cholesterol
- The cholesterol levels for each patient will be re-tested, and students will determine whether or not their treatment plans were successful
- Kit contains enough materials for 15 groups
- Teacher's Manual and student study guide copy masters are included

Cat. No.	Price
S27124	\$109.00/Ea

## Blood-Based Cancer Diagnostics

Use specific cell surface protein markers of cancer cells for their identification.

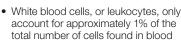


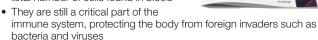
Cancer cells differ from normal cells by the combinations of proteins that are present on their surfaces. Antibodies against these proteins will specifically bind to cancer cells and not to normal cells. This allows early detection of cancer and potentially a way of delivering cancer therapies. In this simulation experiment the reaction of cancer cell markers and their corresponding antigens are demonstrated.

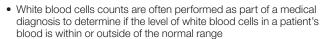
Cat. No.	Price
S94672	\$128.00/Ea

## Diagnosis of White Blood Cell Counts Kit

Allows students to perform white blood cell counts on five patient samples, and then suggest a possible diagnosis based on the determined cell levels.







- In this activity students will perform white blood cell counts on five different patient samples and suggest possible diagnoses based on the white blood cell levels
- The samples contain safe, non-biological simulated cells that do not require staining
- Requires microscopes and hemocytometers (not included)
- Contains enough material for 15 lab groups
- Includes Teacher's Guide and Student Study copy masters

Cat. No.	Price
S27125	\$42.00/Ea

### **Detection of Mad Cow Disease**

Educate students about mad cow disease.

Bovine spongiform encephalopathy (BSE), better known as mad cow disease, is a fatal neurodegenerative

condition in cattle that can devastate the beef industry. One mode of BSE transmission throughout cattle populations is by the inclusion of infected cow or sheep parts in cattle feed, a practice that was banned in the United States in 1997.



- Examine simulated PCR products from several feed mills
- Determine any possible violations of the 1997 ban
- Does not contain human DNA

Cat. No.	Price
S95607	\$130.00/Ea



#### **AIDS Simutest Kit**

Students run simulated ELISA tests for AIDS.

- Students experience the world of biotechnology and learn about HIV virus within this one hour lab investigation
- · Students run eight patient samples in simulated ELISA to determine which patients may have contracted the HIV virus



- · Includes simulated patient serums, conjugate, chromagen, and reusable treated ELISA microtiter plates
- Safe for student use as it contains no blood serum or infectious diseases
- For grades 11 to 14
- · Class size: 24 students

⚠ ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
S06451	\$400.00/Ea

### **How Does a Doctor Test for AIDS?**

Students perform simulated **ELISA** testing for AIDS.

- Immunology-based diagnostic tests are used to detect various diseases
- Enzyme Linked Immunosorbent Assay (ELISA) tests for antibodies in the blood, which indicate infection
- Students perform a simulated ELISA test to identify "infected" samples and compare them to control samples
- Complete in 45 minutes

S94603	\$99.00/Ea
Cat. No.	Price
<ul> <li>No human blood or components are used in this experiment</li> </ul>	
• Complete in 45 minutes	Group #7 Status



Students develop skills for accurately transferring solutions using pipets.

This experiment contains solutions to demonstrate how an infection is spread in a population through contact with simulated body fluids.

- Learn how infections are spread from one person to many others
- Transfer solutions from one tube to another
- Test a solution for the presence of an acid or a base

ALERTS: This kit contains chemical(s) that may be harmful if used improperly. This kit is to be used by students only with teacher supervision.

Cat. No.	Price
S94602	\$99.00/Ea

## **Dental Cavity Potential Kit**

Kit promotes dental health.

Designed by Temple University's School of Dentistry, this kit allows students to quantitatively determine the bacterial content of their own mouths and to measure the rinsing capacity of their mouths.



- · Provides students with enough information to radically change eating habits in order to prevent tooth decay
- Grades 6-12
- · Class size: 24 students

ALERTS: Choking hazard (1) Small parts. Not for children under 3 yrs.

Cat. No.	Price
\$25001	\$270.00/Ea









# Healthcare Training and Education Supplies

Explore a complete range of healthcare education products to help prepare the nurses and allied health professionals of tomorrow.

## Nursing

Find a range of tools to develop basic knowledge and learn advanced skills.

- Clinical Classroom Facilities
- Infection and Spill Control
- Patient Care Training

## Allied Health

Train for specialized fields, like audiology and laboratory science.

- Primary and Emergency Care Education
- Diagnostic Education
- Health Science Specialties
- Other Specialty Training

Visit **fisheredu.com/healthcare-education-products** to learn more.

#### **Human Charts & Models**

## **Dental X-Rays**

Allows exploration of the development of healthy teeth and the intricacies of correcting growing teeth with braces.



- X-ray set goes beyond the basics of brushing and flossing
- Gives students an exclusive look at the consequences of tooth injuries and infections of all kinds
- Reminds athletes about the importance of mouth guards
- Includes: 15 X-rays and guide

Cat. No.	Price
\$40793	\$25.50/Ea

## Broken Bones X-Rays

Shows detailed real X-ray view of common breaks to a variety of human bones.



Cat. No.	Description	Price
S12883	Broken Bones X-Rays	\$37.50/Ea

## True to Life Human X-Rays

Reproduce the entire body of a young adult, 5 ft. (1.5 m) tall.

- Life-size human X-rays
- Hold up to a light or use on a light table to see every authentic detail of a real skeleton
- Teacher guide includes reproducible artwork and information on radiography
- Includes: 18 X-rays, reproducible worksheets and guide

Cat. No.	Price
S40786	\$38.50/Ea



## Deluxe Human Torso Models

Introduce your class to human anatomy with these economical and mounted life-size torsos – includes 3B SMART ANATOMY.

Introduce your class to human anatomy with this economical and mounted life-size torso.

- Head shows skull and brain on one side
- Lungs and heart show junctions to the major vessels
- Front heart wall comes off to show inner chambers
- Exhibits entire intestinal system including the liver with gallbladder, pancreas and removable two-part appendix flap
- All parts numbered and correspond to supplied key card to aid in lesson preparation
- Height: 34 in. (13.6 cm)

Cat. No.	Description	Size	Price
S17150H	Torso with Head, 12-Part	Height: 34 in. (13.6 cm)	\$900.00/Ea
S17150C	School Torso with Head, 14-Part	Height: 34 in. (13.6 cm)	\$1,038.00/Ea
S171454	Torso with Head, 18-Part	34 x 15 x 10 in. (85 x 37.5 x 25 cm)	\$1,203.00/Ea

## Muscle Torso with Head

27-part model of the major muscles – includes 3B SMART ANATOMY.

- Includes Hand-numbered features with a corresponding key card.
- Dimensions:  $37.5 \times 23.5 \times 14$  in. (95.25 × 59.7 × 35.6 cm)

Cat. No.	Price
S17186	\$8,918.00/Ea





## **Anatomy Models Set**

#### Helps students gain a deeper understanding of how organs and systems interact.

Ideal for human body centers focusing on major organs or the circulatory, nervous or skeletal systems. Each realistically-detailed plastic model includes a display stand, and guide with facts and step-by-step, photo-illustrated assembly instructions.

#### Brain (\$95867)

- Features cerebellum, frontal lobe, parietal lobe, temporal lobe, occipital lobe, corpus callosum, brain stem, hippocampus, ventricles, insula, corpus striatum, internal capsule and lentiform nucleus
- 31-piece model measures 3.75 in. H (9.75 cm) when assembled

#### Heart (\$95866)

 Features superior vena cava, inferior vena cava, right atrium, tricuspid valve, right ventricle, pulmonary valve, pulmonary artery, left atrium, mitral valve, left ventricle, aortic valve and aorta

- Opens when assembled so students can explore from the inside
- 29-piece model measures 5 in. H (12.7 cm) when assembled

#### Human Body (\$95868)

- Features brain, skull, heart, rib cage, lungs, liver, stomach, pancreas, kidneys, small intestine, large intestine and spine
- 31-piece torso model measures 4.5 in. H (11.4 cm) when assembled

#### Skeleton (S95869)

- Features skull, rib cage, humerus, spinal column, radius, ulna, hand, pelvis, femur, tibia, fibula, foot and partial circulatory system
- 41-piece model measures 9.2 in. H (23.4 cm) when assembled

⚠ ALERTS: CHOKING HAZARD. Small parts. Not for children under 3 yrs.



Cat. No.	Туре	Includes	Price
S95867	Anatomical Model, Brain	Cerebellum, frontal, parietal, temporal and occipital lobes, corpus callosum, brain stem, hippocampus, ventricles, insula, corpus striatum, internal capsule and lentiform nucleus, fact guide and photo-illustrated assembly instructions	\$36.75/Ea
S95868	Anatomical Model, Human Body	Brain, skull, heart, rib cage, lungs, liver, stomach, pancreas, kidneys, small intestine, large intestine and spine guide, photo-illustrated assembly instructions, step-by-step, photo-illustrated assembly instructions	\$36.75/Ea
S95869	Model, Human Skeleton	Skull, rib cage, humerus, spinal column, radius, ulna, hand, pelvis, femur, tibia, fibula, foot and partial circulatory system, photo-illustrated instructions	\$36.75/Ea
S95870	Model, Anatomy Set	29-parts 5 in. H heart, 31-parts 3.75 in. H brain, 31-parts 4.5 in. H Human body, 41-parts 9.2 in. H skeleton, guide with facts and step by step, photo-illustrated assembly instructions	\$133.00/Ea

#### **Deluxe Human Torsos**

## 28- or 24-part models are precision-crafted and hand-painted – includes 3B SMART ANATOMY.

- Detailed brushwork by dedicated artisans depicts the most life-like colors of internal organs
- Removable internal organs are meticulously molded to fit securely into their proper anatomical positions, removing unnatural gaps Made of unbreakable, vinyl plastic for durable, long-lasting use
- Male and female genital organs can be interchanged
- Mounted on a sturdy base for support
- Dimensions:  $14.96 \times 9.84 \times 34.25$  in.  $(38 \times 25 \times 87$  cm)

#### Includes:

- Three-part removable head with partially exposed mouth and nasopharynx, half brain and arteries
- Two-part stomach
- Female breast plate with rib insertions

- · Right and left lungs
- Two-part heart
- Liver with gallbladder
- Three-part large intestine with appendix flap
- · Small intestine
- · Front half of kidney
- Four-part male genital insert
- Three-part female genital insert with embryo
- · Instruction guide
- Open neck and back to study vertebrae, intervertebral discs, spinal cord, spinal nerves and vertebral arteries
- · Removable seventh thoracic vertebra
- Eye with optic nerve
- Four-part brain

Cat. No.	Description	Price
S17139	Model, Torso, Deluxe Dual Sex with Opened Back	\$2,018.00/Ea



## Life-Size Male Muscular Figure, 37-Part

Examine more than three dozen parts - includes 3B SMART ANATOMY.

- Hand-detailed, life-size model allows students to remove and examine muscles and various body organs.
- Right side of the model offers a complete view of the superficial musculature
- Left side shows the deeper muscles of the arm and leg
- Comes with a rolling base
- Dimensions: 71 x 43 x 19.5 in. (177.5 x 107.5 x 48.8 cm)

- Separates into 37 parts
- Arm muscles (deltoid, biceps, radial and ulnar flexors, superficial digital flexor, and the palmaris longus in a muscle package)
- Leg muscles (gastrocnemius, saleus with Achilles tendon, sartorius, and gluteus maximus)
- Brain (six parts)
- Heart (two parts)

- Organs of the thorax and abdomen (right and left lung)
- Diaphragm
- Stomach (two parts)
- Liver
- Kidney
- Intestine and part of the bladder
- · Larynx (two parts)
- External sexual organs (two parts)
- Eye

 Cat. No.
 Price

 \$17101R
 \$13,079.00/Ea



## **Eisco™ Torso with Interchangeable Sex Organs Model, 24 Parts**

Dual sex model detailing human upper body anatomy with open back.

- Life-size cut away spine showing head with nasal and buccal cavity, half brain, eye with optic nerve
- Male genital organs in four parts and female genital organs in two parts with embryo in third month of pregnancy
- Back shows vertebral column, spinal cord with nerve endings and removable seventh cervical vertebra
- Removable female breast with rib insertions, heart in two parts, two-lung halves, liver with gall bladder, two-part stomach, large and small intestines with appendix flap opening and cover, half of kidney
- Base-mounted and numbered with English key card
- L x W x H: 15 x 9.5 x 35 in. (38 x 24 x 89 cm)

 Cat. No.
 Price

 \$1,234.00/Ea
 \$1,234.00/Ea



## Muscle Torso, Two-Sex, with Pregnancy Insert

Has 31 removable parts - includes 3B SMART ANATOMY.

- · Head with nose and mouth cavity
- · Pharynx with skull base exposed
- · Four-part brain half with arteries
- Six-part eyeball with optic nerve
- Deltoids, chest and belly with superficial and deep musculature
- Two lungs
- Heart with junctions to the major vessels and detachable two-part front heart wall
- Two-part front and rear half of a stomach

- Liver, gallbladder and small intestine
- Entire intestinal system with a pancreas
- Three-part transverse colon with an appendix flap and front kidney half
- Three-part female genital insert with removable fetus in the third month of pregnancy
- Four-part male genital insert with a removable penis
- Back and neck opened from cerebellum to sacrum, with removable seventh thoracic vertebra

Cat. No.	Description	Price
S17150F	Muscle Torso, Two-Sex, with Pregnancy Insert	\$4,299.00/Ea





#### 33-Part Muscular Model

#### Comprehensive anatomy study - includes 3B SMART ANATOMY.

Make sense of human anatomy with this one-half life-size model featuring 33 parts and interchangeable reproductive organs.

- Anatomical details conform closely to the human body
- Shows superficial and deep muscles, vessels and nerves and internal organs
- Mounted on stand

- Removable arms, muscles, calvarium and thoracic cover
- Height: 33 in. (82.5 cm)

**Dissectible parts:** Body, calvarium (skull), brain, stomach, liver, partial intestine with flap, female genitals, male genitals, eight muscles of the left leg and right arm and left arm and five muscles



Cat. No.	Description	Price
S17150D	33-Part Muscular Model	\$5,113.00/Ea

## Mini-Musculature Figure Model

#### One-quarter life-size with full-size value - includes 3B SMART ANATOMY.

Our Mini-Musculature Figure Model stands only 22.5 in. (56.3 cm) tall, yet provides big value

- Two-part model gives accurate, detailed representation of the male muscular system
- Depicts and numbers superficial and deep muscles and tendons, blood supply and drainage, and major nerves
- Shows female mammary gland on the detachable thoracic/abdominal torso covering
- All major internal organs appear lifelike and have numbered parts keyed to the manual



Cat. No.	Description	Price
S17151	Mini-Musculature Figure Model	\$1,054.00/Ea

## **Muscular Anatomy Model**

For anatomical studies - includes 3B SMART ANATOMY.

- · Mounted on a roller stand for portability
- · Supplied with a detailed key card
- 3/4 life size

#### 23-Part Model

Designed primarily for studies of the musculature since it has no removable internal organs.

- Head with removable calvarium
- Trunk with a right leg and portion of a right shoulder
- · Right arm
- Left arm with five removable muscles
- Thoracic and abdominal cover
- Two-part female genitalia
- Left leg with eight removable muscles

#### 45-Part Model

Models the human muscular system, vessels, nerves and partly dissectible organs.

- Head with removable calvarium and three-part brain
- Trunk with right leg and portion of a shoulder
- Right arm
- Left arm with scapula and five removable muscles
- Left leg with eight removable muscles
- Thoracic and abdominal wall

- Right mammary gland
- Lungs, four parts
- Thymus
- Heart, two parts
- Diaphragm
- Liver with gallbladder
- Stomach, two parts
- Duodenum and pancreas
- Male genitalia, four parts
- Female genitalia, two parts



Cat. No.	Description	Price
S17168A	Muscular Anatomy Model, 23-Part Master Series	\$11,042.00/Ea
S17168	Muscular Anatomy Model, 45-Part Master Series	\$11,867.00/Ea



#### Eisco™ Human Torso Model

Life size showing head with nasal and buccal cavity, half brain, eye with optic nerve for students.

- Removable two lung halves, heart in two parts, liver with gall bladder, two part stomach, large and small intestines with appendix flap opening and cover, half of kidney
- Male genital organs in four parts and female genital organs in two parts with embryo in the third month of pregnancy
- Back shows vertebral column, spinal cord with nerve endings and the first, fifth and seventh dorsal vertebra is removable
- Mounted on base
- 28 parts, open back, dual sex
- · Numbered with English key card
- Size of 38 x 24 x 90 cm (14.96 x 9.44 x 35.43 in.) approx.

Cat. No.	Price
S09584	\$775.00/Ea



#### **Deluxe Human Skeleton**

Medical-grade skeleton works for both instructional illustration and chiropractic demonstration – includes 3B SMART ANATOMY.

Highly detailed, unbreakable plastic model is natural cast and presents muscle paintings, joint ligaments, numeration of bones and flexible spine with nerve endings.

- Deluxe skull is dissectible into calvarium, base of skull and lower jaw
- Position and spacing of teeth are reproduced from a natural denture
- Special mounting of rib cage maintains proper positioning
- · Detachable skull, left arm and leg
- Right side presents muscle insertions in blue and origins in red; left side of skeleton displays more than 300 nominated bones, fissures and foramina
- M. iliocostalis and M. longissimus are color-contrasted for clarity
- Shoulder, elbow, hip and knee of the right side provided with life-like ligaments and movable joints
- Flexible spine allows natural movement and features a herniated disc, protruding nerves and vertebral artery
- Rotation and movement of skull on first and second cervical vertebrae can also be demonstrated
- Available mounted with pelvic mount or on hanging stand
- Height: 67 in. (170 cm)

· Includes: manual and dust cover

## Skeleton with Muscle Origins and Insertions (S07912)

Shows structural interaction between bones and muscles.

Includes all features of adult skeleton (S17133B) with the addition of color to the right half of the skeleton to show muscle origins and insertions. The perfect model for advanced human physiology courses, its tough vinyl plastic construction holds up to classroom use.

- On left side of skeleton over 600 structures, such as muscle origins (red), insertions (blue) are shown
- Hand-numbered bones, fissures and foramina are shown on right side
- Made from durable, unbreakable synthetic material
- Mounted on a stable metal hanging stand with five casters
- Natural size, anatomically accurate and realistic weight of around 200 bones
- Three part assembled skull
- · Individually inserted teeth
- Removable limb
- Height: 67 in. (170 cm)
- Weight: 15.87 lb. (7.2 kg)

**WARRANTY:** Three years

Cat. No.	Description	Price
S171564	Deluxe Human Skeleton	\$1,636.00/Ea
S17138A	Skeleton with Muscle Origins and Insertions; Height: 66.9 in. (169.9 cm)	\$1,313.00/Ea
S07912	Skeleton with Muscle Origins and Insertions; Height: 75.8 in. (192.5 cm)	\$1,284.00/Ea





#### **Muscular Arm**

Six-part, three-quarter life-size left arm to study musculature – includes 3B SMART ANATOMY.

- Provides a detailed view of superficial and subjacent muscles, tendons, vessels, nerves, and bones of the hand, arm and shoulder
- Five removable muscles aid in the understanding of the muscular structure and attachments
- Height: 22.75 in. (57.8 cm)
- Includes stand

Cat. No.	Description	Price
S17136	Muscular Arm	\$953.00/Ea



Nine-part left leg defines the muscular process – includes 3B SMART ANATOMY.

- Shows superficial and subjacent muscles, tendons, vessels, nerves and bones
- Three-quarters life size
- Height: 30 in. (76.2 cm)
- Includes stand





Dissectible Life size model with nine parts.

- Shows all muscles, tendons, nerves, blood vessels and bones of leg and foot
- Parts can be removed for detailed study
- Mounted on base numbered with English key card

Cat. No.	Price
S15591	\$914.00/Ea



### Flexible Human Skeleton Model

Medical-grade, natural-cast skeleton suitable for instructional and chiropractic demonstrations – includes 3B SMART ANATOMY.

- Made from unbreakable plastic material for classroom durability
- Deluxe skull is dissectible into three parts: calvarium, base of skull and lower jaw
- Position and spacing of teeth are reproduced from a natural denture
- Upper and lower extremities are flexibly mounted and removable
- Flexible spine allows almost all natural movements and features a herniated disc, protruding nerves and vertebral artery
- Rotation and movement of the skull on first and second cervical vertebrae can be demonstrated as well
- Height: 70 in. (177.8 cm)
- · Includes: roller stand and dust cover

Cat. No.	Description	Price
S171562	Flexible Human Skeleton Model	\$1,089.00/Ea

## **Adult Human Skeleton**

Premier line of skeletal models offers educators medical-grade quality – includes 3B SMART ANATOMY.

- Made of durable, unbreakable, washable plastic material
- Natural movements can be demonstrated with detachable arms and legs
- Detachable skull is divisible into three parts: calvarium, base and lower jaw

#### Life-Size Skeleton

- Measuring 70 in. (170 cm) tall, this pelvic-mounted model is an exact reproduction, natural cast from bones of an adult male
- Special mounting of the rib cage allows the skeleton to maintain proper positioning
- All joints are properly articulated and wired, including the lower jaw, which articulates by means of springs
- Comes complete with roller stand and dust protection cover

#### Mini Skeleton

- Half natural size: 33 in. (80 cm)
- Carefully reproduced to keep all anatomical details and structures
- Hip joints are specially mounted so their natural rotation can be demonstrated

Cat. No.	Height	Description	Price
S17133B	70 in. (170 cm)	Life-Size Skeleton on 5 ft. Stainless Steel hanging roller stand with 5 casters	\$667.00/Ea
S17137	33 in. (80 cm)	Mini Skeleton on 5 ft. Stainless Steel hanging roller stand with 5 casters	\$1,008.00/Ea



## Eisco™ Human **Articulated Skeleton** Model, Hanging

Life sized human skeleton model stands 64 in. tall.

- Three-part skull is removable for closer study
- · Features realistic details, textures and bony



S13521	\$462.00/E
Cat. No.	Pric
<ul> <li>Skeleton suspends from hanging stand with casters on base</li> </ul>	7
landmarks	

### **Disarticulated Human Skeleton**

Supports individual study and authentic assessment - includes 3B SMART ANATOMY.

Made of durable plastic, skeleton kit includes all of the bones from an adult male skeleton.

- Show how each bone functions and fits amid the body's entire framework
- · Examine individual bones, versus a fully assembled skeleton
- · One hand and one foot are articulated with wire to show correct orientation of the bones
- The second hand and foot are disarticulated and packed in their own plastic bag
- · Jaw is articulated with the aid of a spring
- All 24 vertebrae are strung together with a nylon cord to maintain proper sequence; the coccyx is also wired
- All 24 ribs are contained in a plastic bag
- · All other bones, including the hyoid and the upper and lower extremities, are packed in a carton
- Skull's calvarium is sectioned horizontally for intercranial studies
- Weight: 10.58 lb.

Cat. No.	Description	Price
S17131B	Disarticulated Human Skeleton (no painted parts)	\$765.00/Ea

## Eisco™ Disarticulated **Skeleton Model**

For students examining human skeleton.

- · Life-Size, male model
- Made of durable PVC plastic
- · Comes with one hand and one foot





## Eisco<sup>™</sup> Human **Skeleton Miniature Model With Stand**

Miniature model for classrooms.

- Model gives general idea of bones
- · Mounted on stand
- Height: 51 cm (20 in.)

Cat. No.	Price
S15583	\$47.75/Ea



## United Scientific™ **Human Skeleton** Model

Half-size model for demonstrating basic anatomic features of a human skeleton.

- The carpals and tarsals are fused, but the rest of the skeleton demonstrates natural joint movement
- · Heavy metal base adds extra stability and the skeleton is constructed of rugged plastic
- Features unbreakable ribs, stainless steel screws, brackets and springs to resist corrosion
- Detailed key included

Cat. No.	Price
S13132	\$97.00/Ea

## Eisco™ Human Life Size **Skull Color Coded Model**

This life size skull is hand painted and comes in 3 parts.

- Three parts, including calvaria, base of skull, and mandible
- · Hand painted, color-coded to show the structures of the human skull
- · Mandible is articulated to demonstrate movement
- · Model features realistic details, textures and bony landmarks
- Made of durable and sturdy plastisol polymer. This washable model is easy to clean and will hold up to years of handling.





## Beauchene 22-Part Adult Human Skull Model

Can be disassembled into 22 individual bones – includes 3B SMART ANATOMY.

The human skull consists of many individual bones that gradually grow together we develop and grow. This popular model makes the complex anatomic structure of the skull easy to understand. Easily disassembled, the individual bones can be reassembled using the inconspicuous, stable connectors attached at the slightly simplified skull sutures.



- Natural cast
- Dimensions: 8.3 x 5.5 x 6.3 in. (21 x 14 x 16 cm)

#### Includes the following individual bones:

- Parietal bone (left and right)
- · Occipital bone
- Frontal bone
- Temporal bone (left and right)
- Sphenoid bone
- Ethmoid bone
- Vomer bone

- Zygomatic bone (left and right)
- Upper jaw (maxilla) with teeth (left and right)
- Palatine bone (left and right)
- Nasal concha (left and right)
- Lacrimal bone (left and right)
- Nasal bone (left and right)
- Lower jaw (mandible) with teeth

Cat. No.	Description	Price
S98673	Model, Human Adult Skull, Bone Colored	\$672.00/Ea
S98674	Model, Human Adult Skull, Didactic Colored	\$770.00/Ea

## Half of Head

See both internal and external features – includes 3B SMART ANATOMY.

and Neck

Two-sided, life-size vinyl plastic model shows both internal and external features of the head and neck.

- One side demonstrates musculature and the most important surface arteries, veins and nerves
- The opposite side shows a median section illustrating inner anatomy
- Nondetachable model is mounted on stand with base
- Dimensions: 9 x 7 x 18 in. (22.5 x 17.5 x 45 cm)

Cat. No.	Description	Price
S171061	Half of Head and Neck	\$672.00/Ea

## Eisco<sup>™</sup> Human Eye Model in Bony Orbit

Enlarged eye model for detailed anatomic studies.

- · Nine parts in bony orbit
- Removable upper half eye ball is dissectible into six parts
- Two muscles controlling the eye ball are removable
- · Mounted on base
- · Numbered with English key card
- Size: approx. 33 L x 23W x 20 cm H (12.9 x 9 x 7.8 in.)

Cat. No.	Price
S15546	\$246.00/Ea

#### Eisco™ Prehistoric Man Skull Set

Set of six natural-sized replicas of prehistoric skulls.

- Natural-sized replica of prehistoric skulls
- Includes: Afarenis cranium, Africanus cranium, Habilis cranium, Erectus cranium,

Neanderthalensis cranium and Steinheim skull



Cat. No.	Price
\$15607	\$384.00/Ea

## Deluxe Flexible Spine Model with Femur Heads

Used for anatomic study, and is flexibly mounted with movable femur heads for effective demonstration – includes 3B SMART ANATOMY.

- Sacral opening and exposed brain stem for further study
- Height: 32.7 in. (83.0 cm)
- Extremely good value and durability
- · Full pelvis and occipital plate
- Fully flexible mounting throughout spine
- L3-L4 disc are prolapsed on spinal column
- View the spinal nerve exits and cervical vertebral arteries
- Male pelvis

Cat. No.	Description	Price
S28476	Flexible Spine Model, Deluxe with Femur Heads	\$379.00/Ea



#### **Functional Joint Models**

Life-size, vinyl plastic ligamented joint models that simulate actual joint movement – includes 3B SMART ANATOMY.

- Medical-quality joints have ligaments that actually stretch
- Demonstrate abduction, anteversion, retroversion, internal and external rotation, and more
- Shoulder Joint consists of the scapula with part of the clavicle and the top portion of the humerus
- Elbow Joint consists of a portion of the upper arm with a complete radius and ulna
- Hip Joint demonstrates rotations of the femoral head in the socket
- Knee Joint consists of part of the femur, and upper parts of the tibia and fibula

Cat. No.	Description	Price
S171341	Functional Elbow Joint Model	\$156.00/Ea
S171343	Functional Hip Joint Model	\$156.00/Ea
S171342	Functional Shoulder Joint Model	\$156.00/Ea
S171344	Anatomical and Cellular Human Functional Knee Joint Bio Model	\$156.00/Ea

## Eisco<sup>™</sup> Human Articulated Hand Bone Model

Life-size human articulated hand bone model provides an incredible amount of realism and detail. The flexible wire assembly allows for full movement demonstration.

- Life-size, anatomically accurate
- Realistic details, textures, and bony landmarks
- Ideal for both student and patient educational demonstrations
- Made of durable and sturdy PVC plastic
- Held together with flexible wire to allow for full range movement demonstration of the human hand
- Washable

Cat. No.	Includes	Price
S27433	Left Side	\$30.25/Ea
S27432	Right Side	\$30.25/Ea



## Eisco<sup>™</sup> Human Clavicle Bone Model

Life-size human clavicle bone model, commonly referred to as the collarbone, provides an incredible amount of realism and detail.



- Life-size, anatomically accurate model
- · Realistic details, textures, and bony landmarks
- · Made of durable and sturdy PVC plastic
- Ideal for both student and patient educational demonstrations
- Washable

Cat. No.	Includes	Price
S27453	Left Side	\$8.05/Ea
S27452	Right Side	\$8.05/Ea

#### **Classic Tooth Model Series**

Five representative types of adult dentition that are individually mounted on removable stands – includes 3B SMART ANATOMY.

- Two-part lower incisor with longitudinal section
- Two-part lower canine with longitudinal section
- Lower single-root pre-molar
- Two-part lower twin-root molar with longitudinal section showing caries attack
- Three-part upper triple-root molar with longitudinal section and caries insert

Cat. No.	Description	Price
S90791	Classic Tooth Model Series	\$756.00/Ea

## Eisco™ Human Lower Jaw Model

Includes 16 extractable teeth and features a partial section of the jaw that can be removed for further study.

- Anatomically accurate model
- Natural size and color
- Realistic details, textures, and bony landmarks
- Ideal for educational and medical demonstrations
- Made of durable, washable PVC plastic to withstand years of student and instructor use
- Use for individual study or as replacement for missing/damaged pieces to a full skeletal model set

Cat. No.	Price
S27458	\$33.25/Ea



fisheredu.com

## Skin Model, 80X

Represents sections of human skin with magnification of 80x includes 3B SMART ANATOMY.

Consists of three individual parts on a common stand. Anatomical differences of skin sections are didactically represented in a clear, easily understandable manner. Microscopic structures such as nerve, vessels and tactile corpuscles have been accurately and spatially represented on model.



#### Microanatomical representation of:

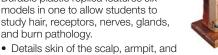
- · Papillary layer (e.g., localized in the palm of hand)
- · Reticular layer (e.g., localized at the back of hand) Longitudinal section through the human scalp with hair follicle and root sheath

Cat. No.	Description	Price
S06780	3 part; Weight: 2.05 kg; Size: 34 x 39 x 15.5 cm	\$418.00/Ea

### Skin Model

Study hair, receptors, nerves, glands, and burn pathology.

Durable plastic replica features six models in one to allow students to study hair, receptors, nerves, glands, and burn pathology.



- sole of the foot, each magnified 75X
- Lets students identify the epidermis, dermis, and subcutaneous
- Utilizes contrasting colors to show subcutaneous layers, including a network of blood vessels, sectioned hair follicles, arrector muscles, sebaceous glands, sweat glands, receptors and their nerve fibers, connective tissue, and fat
- · Supplied answer key helps students understand 46 features of
- · Fully labeled reverse side details the progressive damage associated with three degrees of burns

Cat. No.	Price
S171254	\$782.00/Ea

## Skin Cancer Model

Vividly displays six different stages of malignant melanoma - includes 3B SMART ANATOMY.

- Enlarged eight times, this model shows great detail.
- · Sides show the levels of melanoma invasion into the skin layers according to Clark (I-V), and the tumor thickness according to Breslow (in mm)
- Top view shows the individual stages of externally visible skin changes, allowing for an assessment according to the "ABCDE" criteria
- Five original color illustrations on the base show various types of malignant melanomas
- Dimensions: 5.6 x 4 x 4.6 in. (14 x 10 x 11.5 cm)

Cat No. Description		Duine
Cat. No.	Description	Price
S90793	Skin Cancer Model, Enlarged 8X	\$123.00/Ea

#### **Brain Models**

Different separations of the brain expose different levels of detail and complexity - includes 3B SMART ANATOMY.

- Vinyl plastic models are nonbreakable and natural cast
- · Rest on a form-fitting molded base
- Dimensions: 5 x 6 x 5 in. (12.7 x 15.2 x 12.7 cm)

#### Eight-Part Brain (\$17110)

- Each median section is dissectible into frontal with parietal lobes, temporal with occipital lobes, half of cerebellum, and half of brain stem
- · Superb coloration highlights a variety of brain systems

#### Two-Part Brain (S17108)

• Median section divides brain into two sections

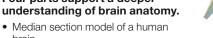
#### Two-Part Brain (\$98678)

- · Structures of the brain shown in one color
- Provides an introduction to the human nervous system and anatomy of the brain
- · Removable base

Cat. No.	Description	Price
S17108	Two-Part Brain	\$216.00/Ea
S17110	Eight-Part Brain	\$416.00/Ea
S98678	Two-Part Brain	\$170.00/Ea

## Eisco™ Human Brain Model, Four-Part

Four parts support a deeper understanding of brain anatomy.

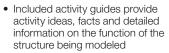


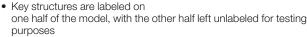
- Right section shows cerebellum and the stem with occipital lobe
- · Features are numbered
- Supported on base

Price
\$125.00/Ea

## **Cross Section Models: Plant/ Animal Cell, Human Heart/Brain**

Colorful foam model comes apart to create a cross section view for hands-on classroom demonstrations.



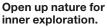


Cat. No.	Description	Price
S90819	Model, Human Brain Cross Section	\$29.05/Ea





## Soft Foam Cross-Section Eye Model



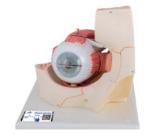
- One side shows the name of each part; the other side is labeled only with letters so students can quiz themselves
- Features cornea, iris, pupil, retina, lens, optic nerve, vitreous humor, sclera, choroid, macula ciliary muscle, optic disc, and zonules
- Measures 5 in. diameter

Cat. No.	Price
S95872	\$27.50/Ea

## Eye in Orbit, Master Series<sup>™</sup>

Optic nerve and a cross section of the eyeball illustrate how the eye functions – includes 3B SMART ANATOMY.

This model eye is mounted in its bony socket and is approximately three times life size. It features an optic nerve that can be seen as far as its entry into the base of the skull.



- Sectioned horizontally Constructed of durable vinyl plastic and mounted on a board
- Dimensions:  $7 \times 10 \times 8$  in.  $(17.5 \times 25 \times 20 \text{ cm})$

#### Separates into seven parts:

- · Sclera with cornea (two parts)
- Vascular tunic with iris
- Vitreous body with retina
- Lens
- Five muscles of the eye
- · Bony orbit

Cat. No.	Description	Price
S17116	7-part; 7 x 10 x 8 in.	\$482.00/Ea
	· '	

## Six-Part Eye Model

Dissects into sclera with cornea and eye muscle attachments, choroid with iris and retina, lens and

vitreous humour. The model is three times full size for optimal viewing and accessibility – includes 3B SMART ANATOMY.

- · Dissects into several parts:
- Both halves of sclera with cornea and eye muscle attachments
- Both halves of the choroid with iris and retina
- Lens
- · Vitreous humour
- Dimensions (L x W x H):
   3.5 x 3.5 x 5.9 in. (9 x 9 x 15 cm)
- Weight: 3.5 oz. (0.1 kg)
- Includes base

Cat. No.	Description	Price
S17118C	Six-Part Eye Model	\$187.00/Ea



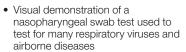
Three times life size for hands-on exploration of the eye.

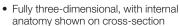
- Upper half of sclera with cornea and eye muscle attachments
- Both choroids with iris and retina
- Lens and vitreous humor are removable
- Features are numbered
- Supported on base

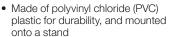
Cat. No.	Price
S95929	\$61.75/Ea

## Eisco<sup>™</sup> Nasal Swab Training Model

12 in. nasal swab training model for the demonstration of nasopharyngeal testing.







- A great addition to a laboratory, a doctor's office, or a science classroom
- Designed by subject matter experts and hand-painted using vibrant, eco-friendly paint
- Model with stand measures 12 x 10 x 8 in.

Cat. No.	Price
S28932	\$189.00/Ea

## Four-Part Enlarged Ear

The complex structures of the ear are exposed – includes 3B



- I his rugged vinyl plastic model shows the outer, middle and inner ear.
- Enlarged approximately three times life size
- Mounted on a board
- Dimensions: 13 x 7 x 7.5 in. (32.5 x 17.5 x 18.8 cm)

#### Separates into four parts:

- Removable eardrum with hammer and anvil
- · Labyrinth with cochlea
- Auditory/balance nerve (two-part)

Cat. No. Descr	iption	Price
<b>\$17124</b> Four-F	Part Enlarged Ear	\$239.00/Ea





Fax 1-800-955-0740

93

## Two-Part Heart Model, 3/4 Full-Sized

The heart's major functions and structures are numbered for easy memorization – includes 3B SMART ANATOMY.

- This slightly reduced adult-size heart clearly shows the aorta, pulmonary artery, left and right ventricles, left and right atria, septum and both venae cavae.
- · Removable front wall
- · Hangs on its own stand
- · Includes a key card
- Dimensions: 7.6 x 4.8 x 4.8 in. (19 x 12 x 12 cm)

Cat. No.	Description	Price
S17153C	Two-Part Heart Model, 3/4 Full-Sized	\$122.00/Ea

## Eisco<sup>™</sup> Life Size Human Heart Model – 2 Part

A portion of the heart model can be removed for further study.

- Vividly hand painted
- In two parts to reveal detailed internal anatomy
- · Identification Key Card included



## Master Series<sup>™</sup> Blood Circulatory System

See a schematic presentation of blood circulation – includes 3B SMART ANATOMY.

- Detailed schematic of circulatory system in raised relief is approximately one-half life size
- Dimensions: 13 x 22 x 2 in. (32.5 x 55 x 5 cm)

Cat. No.	Price
S171262	\$577.00/Ea

### **Auditory Ossicles**

Life-size replicas of middle-ear bones.

Life-size, embedded replicas of middle-ear bones — the malleus (hammer), incus (anvil) and stapes (stirrup) — cast from human specimens.



Cat. No.	Price
S17835	\$118.00/Ea

## MICROanatomy™ Artery and Vein

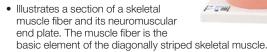
14 times larger than life - includes 3B SMART ANATOMY.

- Model illustrates the reciprocal anatomical relationship of artery and vein, and the basic functional techniques of the venous valves
- Medium-sized muscular artery has two adjacent veins from the antebrachial area with adjoining fat tissue and muscle
- Left vein and middle artery are fenestrated in upper anterior segment to reveal wall structure in a cross section, longitudinal section, and top view
- Right vein is open throughout the anterior segment to display the orifice of a feeder vein and two venous valves
- Relief of two veins illustrates the functional aspect of the venous valves
- Dimensions: 10.4 x 7.6 x 7.4 in. (26 x 19 x 18.5 cm)

Cat. No.	Price
S90777	\$548.00/Ea

## MICROanatomy<sup>™</sup> Muscle Fiber Model

Magnified 10,000 times – includes 3B SMART ANATOMY.



• Dimensions: 9.4 x 10.4 x 7.4 in. (23.5 x 26 x 18.5 cm)



## MICROanatomy<sup>™</sup> Bone Structure

Extremely detailed model shows a typical structure of a tubular bone enlarged 80 times – includes 3B SMART ANATOMY.

- Three-dimensional section of a lamellar bone with typical elements identified to help understand its structure, and function with the characteristic osteons (also referred).
- to as Haversian systems).

   Shows cross and longitudinal section planes through all levels of
- the bone
- Displays two-plane section through the inner structure of the bone marrow
- Graphically illustrates the interplay of components such as spongy and compact substance, endosteum, cortical substance, osteocytes and Volkmann and Haversian canals
- Mounted on a base
- Dimensions: 10.1 x 7.4 x 5.7 in. (26 x 19 x 14.5 cm)

Cat. No.	Price
S90774	\$265.00/Ea



## MICROanatomy™ Kidney

Extremely detailed model shows the morphologic/ functional units of the kidney – includes 3B SMART ANATOMY.

- Six model zones illustrate the fine tissue structures that serve the production of urine
- · Longitudinal section of the kidney
- Section of the renal cortex and renal medulla
- Wedge-shaped section of a kidney lobe with a diagrammatic depiction of three nephrons with Henle's loops of different lengths, and of the vascular supply
- Diagrammatic illustration of an opened renal corpuscle with nephron, and light-microscopic transverse sections of the proximal, attenuated and distal segments of a renal tubule
- Dimensions: 9.2 x 9.9 x 7.4 in. (23.5 x 25.5 x 19 cm)

Cat. No.	Price
S90780	\$495.00/Ea

## MICROanatomy<sup>™</sup> Digestive System

Illustrates the fine tissue structure of the digestive system – includes 3B SMART ANATOMY.

- Model includes four characteristic sections of the digestive system: esophagus, stomach, small intestine and large intestine
- The front of the model is a magnified histological view of the fine tissue structures in individual sections of the digestive system
- The back of the model includes more interesting features to study
- Dimensions: 11.8 x 10.4 x 7.4 in. (29.5 x 26 x 18.5 cm)

Cat. No.	Price
S90778	\$501.00/Ea

## Liver with Gallbladder, Pancreas and Duodenum

Anatomical, base-mounted model offers detailed look at bladder, pancreas and duodenum – includes 3B SMART ANATOMY.

Features include:

- Ducts
- Duodenum
- Vessels
- Extra-hepatic ducts with gallbladder
- Main pancreatic duct and other orifices
- Dimensions: 1.6 x 8 x 7.2 in. (4 x 20 x 18 cm)

Cat. No.	Price
S90798	\$232.00/Ea



Study the liver in detail - includes 3B SMART ANATOMY.

Two-part model shows a magnified diagrammatic view of a section of the liver.

- The left portion highlights a liver section with several lobules
- The right portion is a magnified view of a lobule from the liver section on the left
- Dimensions: 6 x 10.4 x 7.4 in. (15 x 26 x 18.5 cm)

Cat. No.	Price
S90779	\$501.00/Ea

### **Eisco™ Kidney Section Model**

The kidney section model is a set of three hand-painted models mounted to a board that demonstrate several anatomical features of the human kidney. The three models include a kidney cross section,



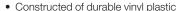
nephron and blood vessels, and glomerulus cross section.

- Kidney cross section 3X life size
- Nephrons and blood vessels 120X life size
- Kidney glomerulus cross section 700X life size
- 3 models mounted on same base
- Supplied with English key card
- Dimensions: approximately 56 x 30 x 7 cm

Cat. No.	Price
S13492	\$174.00/Ea

## Heart, Two Times Life-Size

Twice the size of a real heart, this model helps students to fully grasp the complex nature of the organ – includes 3B SMART ANATOMY.



- Sectioned so both ventricles and atria open
- · Shows valves and major blood vessels
- Dimensions: 13 x 7 x 8 in. (32.5 x 17.5 x 20 cm)



95



## Master Series<sup>™</sup> Lungs with Heart, Diaphragm and Larynx

Life-size model with many removable parts – includes 3B SMART ANATOMY.

#### Features of the thorax model:

- · Displays the viscera of the thorax
- · Durable vinyl construction
- Mounted on base for display
- Dimensions: 16 x 12 x 5 in. (40 x 30 x 12.5 cm)

## Contains these removable parts for added anatomical detail:

- Two-part larynx
- Trachea with bronchial tree
- · Two-part heart
- · Subclavian artery and vein
- Vena cava
- Aorta

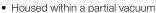


- · Pulmonary artery
- Esophagus
- Two-part lung (front halves removable)
- Diaphragm

Cat. No.	Price
S17155	\$844.00/Ea

## Lung Demonstration Model

Apparatus for classroom to demonstrate how lungs function. Partial vacuum inside the jar causes the lung shaped balloons to relax and contract.



• Plastic construction to prevent breakage

⚠ ALERTS: Not a toy. Product intended for ages 13 and up. May contain latex!



## Nine-Liter Wet Spirometer

Specially designed to meet the needs of today's physiology teachers.

This academic-quality wet spirometer combines reliability and accuracy with an increased volume to accommodate students with larger lung capacities.

- Large, easy-to-read scale graduations
- Includes disposable mouthpieces and a one-way plastic valve for sanitary classroom use
- Made of lightweight, durable, high-density polyethylene (HDPE) plastic and aluminum

#### Determine five different respiratory volumes:

- Tidal Volume (TV)
- Inspiratory Capacity (IC)
- Inspiratory Reserve Volume (IRV)
- Expiratory Reserve Volume
   (ERV)
- Vital Capacity (VC)

Cat. No.	Product Type	Price
S65066	Student Wet Spirometer	\$1,218.00/Ea
S17046A	Mouthpiece	\$89.00/Pk

## CT Bronchial Tree Models

Created using computer tomography data of a human male – includes 3B SMART ANATOMY.

**S06777:** Created on the basis of computer tomography data of a human male, approx. 40 years of age. Natural spatial 3D relations and reciprocal location of segmental bronchi can be preserved and demonstrated in a realistic way.



- Constructed of elastic material
- Larynx with hyoid bone, epiglottis, and trachea with primary and lobar bronchi are depicted in one color on bronchial tree model
- Larynx is detachable at the level of second tracheal cartilage and divisible in the median plane
- Epiglottis is mounted flexibly

**\$68295:** This unique model preserved the natural spatial 3D relations and the reciprocal location of the segmental bronchi.

- Larynx with hyoid bone and epiglottis, and the trachea with primary and lobar bronchi are depicted in one color Larynx is detachable at the second tracheal cartilage and divisible in the median plane Epiglottis is mounted flexibly
- The various segmental bronchi are made of elastic material and depicted in various transparent colors so that they are easier to distinguish visually
- Dimensions: 8.8 x 7.2 x 14.8 in. (22 x 18 x 37 cm)

Cat. No.	Description	Price
S06777	CT Bronchial Tree	\$1,078.00/Ea
S68295	CT Bronchial Tree with Larynx and Transparent Lungs	\$794.00/Ea

## Digestive System Four-Part Model

A two-part model that reveals a stomach's interior walls – includes 3B SMART ANATOMY.

- Life-size, vinyl plastic model demonstrates the digestive tract from mouth to rectum
- Nasal and oral cavities, pharynx, larynx with epiglottis and esophagus are sectioned medially
- Two-part stomach is dissectible to reveal the interior wall, liver, gallbladder, pancreas, small intestine, colon and rectum
- Model separates into four parts and is mounted
- Dimensions: 31 x 13 x 4 in. (77.5 x 32.5 x 10 cm)

Cat. No.	Price
S171584	\$799.00/Ea



-Q-88

## **Nervous System**

This nervous system relief model shows a schematic representation of the central and peripheral nervous systems – includes 3B SMART ANATOMY.

- · Securely mounted on a firm backing
- Features a schematic presentation of human central and peripheral nervous systems
- No removable parts, so it will remain intact for many years
- Approximately one-half life size Dimensions: 32 x 13 x 2 in.



## Spinal Cord Model with Nerve Endings

Magnified to a scale of about 5:1 – includes 3B SMART ANATOMY.



- The spinal cord is formed by a central channel surrounded by "gray matter," with an outer layer of "white matter"
- The base features illustrations of various cross sections through the white and gray matter at the neck, torso, lumbar and sacral regions
- Dimensions: 10.2 L x 7.5W x 5.2 in. H (26 x 19 x 13 cm)

Cat. No.	Price
\$96427	\$401.00/Ea

## **Eisco™ Lymph Nodes Model**

Lymph nodes model with incoming and outgoing lymph vessels, germinal centre, sinus, capsule, trabecula, artery and vein. Mounted on a base, includes English key card.

- 3D model of lymph nodes, perfect for laboratory study
- Detailed anatomy includes incoming lymph vessel, germinal centre, sinus, outgoing lymph vessel, capsule, trabecula, incoming artery, outgoing vein
- Vividly hand painted
- · Identification key card included (English)
- · Supplied with stand
- 24 in. tall, 15 in. wide, and 9.5 in. long

Cat. No.	Price
S29614	\$330 00/Fa



### Eisco<sup>™</sup> Model Human Testis

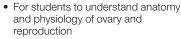
Model of human testis showing all details.

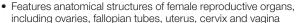
- · Mounted on base
- Numbered with English key card
- Size 13 x 13 x 27 cm approx.
- · Weight 350 g approx.

**Cat. No. Price \$15572** \$68.00/Ea

## Eisco<sup>™</sup> Female Reproductive Organs Model

Anatomically accurate representation of female reproductive organs.





- Uterus, one fallopian tube and ovary are bisected to show internal structures
- Size: 30 x 14 x 21 cm (11.8 x 5.51 x 8.26 in.)

Cat. No.	Price
S15618	\$102.00/Ea

## **Pregnancy Series**

Eight-stage pregnancy models – includes 3B SMART ANATOMY.

The 14-part series includes depictions of placenta, umbilical cord, ovaries, fallopian tubes and cervix. Eight natural-size, vinyl plastic models show the uterus with embryo and fetus in the following stages of pregnancy:



- · First month
- · Second month
- Third month
- Fourth to fifth month (removable fetus in prone position)
- Fifth month (removable fetus in breech presentation)
- Fifth month (removable fetus lying on its back)
- Seventh month (removable fetus)
- Twin fetuses in fifth month (removable fetuses)
  Each model is individually mounted on a stand and base
- Dimensions: 5 x 5 x 9 in. (12.7 x 12.7 x 22.9 cm)

Cat. No.	Price
S17101	\$1.465.00/Ea



## Male Pelvis Master Series<sup>™</sup>

Male pelvis comes with removable parts – includes 3B SMART ANATOMY.

- Our life-size median section of the male pelvis outlines sex organs, bladder and muscles, and is suitable for teaching small or large groups.
- Presents parts of the abdominal and dorsal muscular system with lumbar vertebrae, and partial kidney
- Removable bladder and reproductive organs
- Pelvis dissects into two parts
- Use with Female Pelvis Master Series (S17143) for comparative studies



## Female Pelvis Master Series<sup>™</sup>

Removable bladder and reproductive organs – includes 3B SMART ANATOMY.

- Our life-size median section shows how organs are situated in the female pelvis
- Presents parts of the abdominal and dorsal muscular system with lumbar vertebrae and partial kidney
- Removable bladder and reproductive organs
- Base-mounted
- Use with Male Pelvis Master Series (S17144) for comparative studies

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Gat. No.	Price
S17143	\$371.00/Ea



#### Simulators & Medical Trainers

## Heart & Breath Sounds Simulator

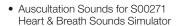
The Heart and Breath Sounds Simulator unit includes two external sounders which students can use to auscultate the sounds with a stethoscope.

- This hand-held device simulates both heart and breath sounds and allows the determination of these by plugging in one of 7 different menus, each containing 16 different sounds
- Linking additional stethoscope sounders (see S00273), up to 15 students can auscultate at the same time. A loud speaker may also be connected
- Additionally, the unit has a volume control and two LEDs that illuminate during systole (heart menu) and expiration (breath menu)
- Virtually maintenance-free, the unit is powered by a 9 volt battery
- All data used in the menus are actual patient sounds. Sounds of the same name are from different patients in different menus to show appearance variations
- · Cartridges with sounds required and not included

Cat. No.	Price
S00271	\$841.00/Ea

### **Breath Sounds**

**Breath Sounds for Sounds Simulator.** 



• Weight: 0.11 lb.



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Cat. No.	Price
S00272	\$113.00/Ea

## Simple Simon Patient Care Manikin, Dark Skin



Full-size adult manikin with movable joints as well as soft fingers and toes for training of important basic nursing skills.

- For training of important basic nursing skills such as:
- Surgical draping
- Bathing and bandaging
- Oral and denture hygiene (movable jaw with removable dentures)
- Ophthalmic exercises
- · Ear irrigation and application of otic drops
- I.M. injection (arm and buttock)

#### Other Features:

 Legs can be removed for compact storage. Supplied with neck brace

Cat. No.	Price
S00229	\$995.00/Ea



## DANi Teen and Young Adult Advanced Patient Care Trainer

An advanced training solution for nursing and EMS procedures that simulates issues related to drug abuse, sexual assault, mental health or self harm.

- Accurately reproduces scenarios and challenging dynamics for learners to administer critical care
  for this important patient demographic. Learners can also practice general patient care, patient
  positioning, bandaging and wound dressing, oxygen administration.
- A realistic, hands-on learning experience ideally suited for classroom, in-situ, or hospital instruction.

#### Trauma Simulation

- Physical assessment
- · Airway, breathing, circulation
- Body trauma scan
- Wound care
- Self-harm/drug use moulage
- Asymmetric pupils

#### **Realistic Features**

- Pupils
- Acne

- · Smooth skin
- Tattoo sleeve
- · Piercings and earrings
- Dyed, brown and black wigs
- Foot wounds

#### **Nursing Care**

- Grooming
- · Daily living assistance
- Eye/ear/hair care
- Oxygen

- Pericare
- Ostomy care
- Urinary catheter care
- Oxygen administration

#### Female and Male Genitalia

 Includes female sexual assault genitalia

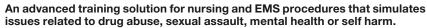
#### **Patient Positioning**

 Superior range of motion, seating, laying, finger and toe manipulation

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Cat. No.	Description	Price
S97911	Color: Light	\$11,337.00/Ea
S97912	Color: Medium	\$11,337.00/Ea

## DANi Teen and Young Adult Advanced Patient Skills Trainer



- Accurately reproduces scenarios and challenging dynamics for learners to administer critical care
  for this important patient demographic. Learners can also practice respiratory support, injection/IV
  with IM pads, intubation, CPR with quality performance metrics, non-invasive blood pressure, enema
  administration (female), catheterization, vaginal, pelvic and prostate examinations.
- A realistic, hands-on learning experience ideally suited for classroom, in-situ, or hospital instruction.
- Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS)
- CPR with quality performance metrics, carotid pulse, intubation

#### **Trauma Simulation**

- · Physical assessment
- · Airway, breathing, circulation
- Body trauma scan
- · Wound care
- Self-harm/drug use moulage
- Asymmetric pupils

#### Realistic Features

- Pupils
- Airway
- Acne
- Smooth skin
- Tattoo sleeve
- · Piercings and earrings
- · Dyed and black wigs
- Foot wounds

#### **Nursing Care**

- Grooming
- Daily living assistance
- Eye/ear/hair care
- Catheter
- Injection
- Oxygen
- Blood pressure
- Pericare
- Ostomy care
- Urinary catheter care
- Oxygen administration

#### Female and Male Genitalia

Includes female sexual assault genitalia

#### **Patient Positioning**

 Superior range of motion, seating, laying, finger and toe manipulation

#### **Respiratory Support**

- Manual ventilation with chest rise
- Intubation
- Ventilation
- Tracheostomy care
- Suctioning

#### Advanced Skills

- Gastrostomy
- Nasogastric procedures
- · Airway/trach suctioning
- Enema
- Pap smear
- Pelvic exam
- Intravenous injections



Cat. No.	Description	Price
S97913	Color: Light	\$14,172.00/Ea
S97914	Color: Medium	\$14,172.00/Ea



fisheredu.com

## DANi Teen and Young Adult Advanced Patient Care Simulator

An advanced training solution for nursing and EMS procedures that simulates issues related to drug abuse, sexual assault, mental health or self harm.

- DANi accurately reproduces scenarios and challenging dynamics for learners to administer critical
  care for this important patient demographic. Learners can practice on a comprehensive and complete
  simulation platform including patient monitoring capability and auscultation (heart and lung sounds).
- A realistic, hands-on learning experience ideally suited for classroom, in-situ, or hospital instruction.
- Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS)
- · CPR with quality performance metrics, carotid pulse, intubation

#### **Trauma Simulation**

- · Physical assessment
- · Airway, breathing, circulation
- · Body trauma scan
- · Wound care
- Self-harm/drug use moulage
- · Asymmetric pupils

#### **Realistic Features**

- Pupils
- Airway
- Acne
- · Smooth skin
- Tattoo sleeve
- · Piercings and earrings
- · Dyed and black wigs
- Foot wounds

#### **Nursing Care**

- Grooming
- · Daily living assistance
- · Eye/ear/hair care
- Catheter
- Injection
- Oxygen
- Blood pressure

#### Pericare

- Ostomy care
- · Urinary catheter care
- Oxygen administration

#### Female and Male Genitalia

 Includes female sexual assault genitalia

#### **Patient Positioning**

 Superior range of motion, seating, laying, finger and toe manipulation

#### **Respiratory Support**

- Manual ventilation with chest rise
- Intubation
- Ventilation
- · Tracheostomy care
- Suctioning

#### Auscultation

- 6 anterior heart sites with 12 heart conditions
- 5 anterior, 6 upper posterior, 4 lower posterior
- 2 mid-axillary lung sites with 12 lung conditions

#### Advanced Skills

- Gastrostomy
- Nasogastric procedures
- Airway/trach suctioning
- Enema
- Pap smear
- Pelvic exam
- Intravenous injections

#### SKILLQUBE<sup>™</sup> Patient Monitoring/Defibrillator

- ECG monitor (with additional patient vitals and monitored signals: ABP, SpO2, etCO<sub>2</sub>)
- Pacemaker
- Defibrillator
- AED
- Ventilator (generic)
- Instructor controlled scenario editor with library
- Auscultation, glucometer, thermometer, checklists, operating procedures
- Realistic laboratory values
- Optional CPR feedback with real-time evaluation (add-on)

Cat. No.	Description	Price
S97915	Color: Light	\$21,400.00/Ea
S97916	Color: Medium	\$21,400.00/Ea

## **Pediatric Nurse Training Baby**

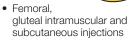
Advanced and realistic model with male and female features allows trainees to practice both basic and medical infant care.

#### Includes:

- Internal organs (heart, lung, intestine system, stomach, and bladder)
- Removable belly covering
- Interchangeable genital organs
- Soft ears
- Fully movable head, arms and legs

#### It allows trainees to practice both basic and medical infant care such as:

- Tracheotomy care
- Male and female catheterization
- Insertion of a tube into mouth or nose
- Enema insertion



Palpitation of fontanels

#### Accessories include:

syringe, suction catheter, feeding tube, urinary catheter, urine collection bag, catheter lubricant and carrying bag.

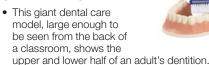






### **Giant Dental Care Model**

Three times Life-Size, shows the upper and lower half of an adult's dentition – includes 3B SMART ANATOMY.





- A flexible joint between the jaws allows easy movement of the dental care model.
- Teach kids the proper teeth cleaning techniques using the giant 14 in. toothbrush included

Cat. No.	Price
S00277	\$212.00/Ea

## Set of Breast Self Examination Models



Models have 5 different lumps that simulate easy and hard to find breast tumors.

 3 female breasts in cup size A, B and C, each with 5 different lumps that simulate easy and hard to find breast tumors which, as in real life, are more difficult to find in the larger breast.



- Suitable to learn and practice self examination, which is an important aspect of early detection.
- Delivered with carrying case.

Cat. No.	Price
S00278	\$364.00/Ea

Blue Phantom Branched 4 Vessel Ultrasound Training Block Model



#### Four vessels included:

- 4 mm, 6 mm, and 8 mm branched vessels
- · Pre-filled with red ultrasound fluid

Cat. No.	Price
S00237	\$735.00/Ea

## Urinalysis Using Simulated Urine

In this urinalysis activity, students will use simulated urine to avoid the unpleasantness of using the real thing while still performing actual tests used



on real urine samples. Kit contains enough materials for 15 groups of students.

#### Kit Includes

- 4 Simulated Urine Samples, 250 mL Each
- Patient X
- Patient Y
- Patient Z
- Control
- 2 Bottles of Benedict's Reagent, 25 mL
- 2 Bottles of Biuret Solution, 25 ml
- 2 Bottles of Sulkowitch's Reagent, 25 mL
- 1 Package of pH Test Strips, 100/vial
- 1 Box Microscope Slides
- 1 Package of Coverslips
- 60 Graduated Plastic Cups, 30 mL
- 60 Graduated Pipettes, 1 mL

Cat. No.	Price
S00214	\$77.00/Ea

### Type II Diabetes Set

## Illustrates the effects associated with Type II Diabetes.

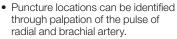
- Includes miniature brain, eye, heart, kidney, artery, pancreas, neuron, and foot models.
- Education card illustrates effects associated with Type II Diabetes: stroke, ocular pathology, hypertensive heart disease, hardening of the kidney, hardening of the arteries, insulin resistance, neuropathy, and foot ulcerations.
- Model size: 10 in. tall
- Base: 8.8 x 6.25 in.





#### Arterial Puncture Arm

Easy to use training aid is ideal for training students how to perform arterial blood draws and monitor blood gases.



- Realistic arterial pressure produces a lifelike backflow of blood in the syringe, confirming proper needle location in the artery.
- · Delivered with 2 syringes and tubules, artificial arterial blood, 2 replacement arterial sections and carrying case.



### **Female Condom** Model

A perfect tool to demonstrate the use of a female condom, contraceptive sponge and cervical cap.

- This model represents an anteverted uterus in a simulated pelvic cavity with soft vulva and vagina and a soft plastic stomach cover.
- · Supplied with carrying bag.

Cat. No.	Pric
S00611	\$239.00/E

#### Cat. No. S00270 \$913.00/Ea

## I.V. Training Hand

An economic and easy to transport model to train on I.V. injection.

Made of durable material for repeated use.

#### Features include:

- Palpable veins, lifelike vein roll-over
- Suitable for blood sampling or fluid injection
- Supplied with carrying tray and artificial

blood	
Cat. No.	Price
S00276	\$432.00/Ea

### Artificial Blood

Although not the same viscosity as real blood, simulation blood provides a sense of reality to any activity.

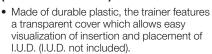


For use with Life/form<sup>™</sup> Products

Cat. No.	Size	Price
S00283	1 L	\$28.75/Ea
S00284	1 gal.	\$45.75/Ea

#### I.U.D. Trainer

Hand-held trainer which is a suitable aid for understanding correct positioning of I.U.D. (Intrauterine Device) in the uterus.



• Size of trainer: 4.5 x 3 x 0.75 inches





## Healthcare Training and Education Supplies

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### TERi Geriatric Patient Care Trainer

A comprehensive male/female elderly patient care trainer for medical simulation. The trainer accurately represents human anatomy, and looks and feels realistic. Its weight is distributed to simulate how a patient's load when being lifted and carried by a healthcare team member.



#### Passive Range of Motion

• Seating, laying, finger/toe manipulation with no effort from patient.

#### **Enhanced Aesthetics**

· Soft silicone skin with noticeable normal and cancerous skin moles, stage 1 sacral ulcer and reddened skin folds.

#### **Grooming and Daily Living Assistance**

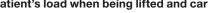
 Bathing, clothing changes, denture placement/ removal, hearing aid placement/removal, eye irrigation and optic drops, ostomy and urinary catheter care, hair care.



Cat. No.	Description	Price
S97908	Color: Light	\$12.244.00/Ea

#### **TERi Geriatric Patient Skills Trainer**

A comprehensive male/female elderly patient care trainer for medical simulation. The trainer accurately represents human anatomy, and looks and feels realistic. Its weight is distributed to simulate how a patient's load when being lifted and carried by a healthcare team member.



**Passive Range of Motion** · Seating, laying, finger/toe manipulation with no effort from patient.

#### **Cardiovascular Support**

· Carotid pulses, CPR with quality performance metrics and auscultation.

#### Intravenous, Injection, Subcutaneous **Injection Sites**

• Multiple locations equipped with standard arm IM injection pads.

#### **Nasogastric Tube Procedures**

· Placement, lavage, gavage, feeding and suctioning.

#### **Enhanced Aesthetics**

· Soft silicone skin with noticeable normal and cancerous skin moles, stage 1 sacral ulcer and reddened skin folds.

#### **Respiratory Support**

• Manual ventilation with chest rise, oxygen administration, tracheostomy care, airway/trach suctioning. Airway intubation, ventilation and auscultation.

#### **Grooming and Daily Living Assistance**

· Bathing, clothing changes, denture placement/ removal, hearing aid placement/removal, eye irrigation and optic drops, ostomy and urinary catheter care, hair care.

#### **Indwelling Male and Female Urinary** Catheterization

· Includes support for urethral and suprapubic catheters.

#### **Advanced Skills**

· Urinary catheterization, enema administration, pelvic and prostate examination.







#### **TERi Geriatric Patient Simulator**

A comprehensive male/female elderly patient care trainer for medical simulation. The trainer accurately represents human anatomy, and looks and feels realistic. Its weight is distributed to simulate how a patient's load when being lifted and carried by a healthcare team member.



This complete simulation comes with auscultation and patient monitoring.

#### **Passive Range of Motion**

 Seating, laying, finger/toe manipulation with no effort from the patient

#### Cardiovascular Support

 Carotid pulses, CPR with quality performance metrics and auscultation

## Intravenous, Injection, Subcutaneous Injection Sites

Multiple locations equipped with standard arm IM injection pads

#### **Nasogastric Tube Procedures**

- Placement, Lavage, Gavage
- Feeding and suctioning

#### **Enhanced Aesthetics**

 Soft silicone skin with noticeable normal and cancerous skin moles, Stage 1 sacral ulcer, Reddened skin folds

#### **Respiratory Support**

 Manual ventilation with chest rise, Oxygen administration, Tracheostomy care, Airway/trach suctioning, Airway intubation, ventilation and auscultation.

#### **Grooming and Daily Living Assistance**

 Bathing, clothing changes, Denture placement/ removal, Hearing aid placement/removal, Eye irrigation and optic drops, Ostomy and urinary catheter care, Haircare

## Indwelling Male and Female Urinary Catheterization

Includes support for urethral and suprapubic catheters

#### **Advanced Skills**

 Urinary catheterization, Enema administration, Pelvic and prostate examination



Cat. No.	Description	Price
S97910	Color: Light	\$23,112.00/Ea

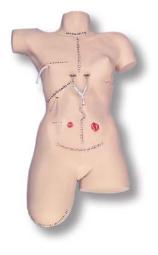
## **Bandaging Simulator with Ostomy**

Simulator with 14 different wounds to practice wound management, cleaning and bandaging techniques.

- Consists of a female torso with flexible, lifelike skin that realistically responds to adhesives and a range
  of bandaging procedures
- Wound closures feature surgical staples and sutures that cannot be removed
- Supplied in a carrying case

#### Simulator features the following wounds:

- Thyroidectomy
- Mid-sternal split with chest tube drains (surgical staples)
- Mastectomy with simulated drain
- Cholecystectomy with simulated T-tube
- · Laparotomy (surgical staples)
- Appendectomy
- Colostomy
- Illeostomy
- Abdominal hysterectomy (surgical staples)
- Thoractomy (surgical staples)
- Nephrectomy (surgical staples)
- Laminectomy
- Sacral decubitus ulcer (stage II)
- Leg amputation above-the-knee residual limb (surgical staples)



 Cat. No.
 Price

 \$98685
 \$1,528.00/Ea

## **Trainer for Wound Care and Bandaging Techniques**

#### Allows students to practice a wide range of dressing and bandaging techniques.

Students can practice wound care in conditions as close to reality as possible. Given the flexible structure of the material used, students can practice putting on and changing bandages and dressings in realistic conditions.

The torso features wounds and drain systems that patients often have after surgical procedures:

- · Wound after a thyroidectomy, center
- · Wound after a sternotomy (with drain), center
- Wound after a mastectomy (with drain), right
- · Wound after a spleenectomy (with drain), left
- Wound after a thoracotomy (pneumonectomy), right

- Wound after a median laparotomy (e.g. cystectomy), center
- Wound after an appendectomy, right
- Wound after a Pfannenstiel incision (e.g. C-section or abdominal hysterectomy), center
- · Wound after a laminectomy, center; rear
- Wound after a nephrectomy (side incision)
- Wound after an amputation (leg residual limb), left
- Colostomy
- Decubitus (grade 2), center; rear



 Cat. No.
 Price

 \$27333
 \$1,752.00/Ea

## **Economy Suture Pad with Suction Base**

Designed to be used to learn and practice suturing skills. Made to simulate skin – can be cut and stitched back together.

Constructed of 3-layers with a skin top layer and a muscle bottom layer

Cat. No. Price \$72152 \$42.75/Ea



105

## **Hemorrhage Control Arm Trainer**

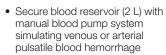
Improve pre-hospital patient care training with instructional and hands-on training of hemorrhage control, including wound packing and tourniquet application.

#### Arm and Skin:

- Trainer simulates full arm of adult male with realistic outer anatomy
- Skin is made of high quality SKINlike<sup>™</sup> silicone to simulate human skin and tissue haptics
- Deep laceration or stab wound (5 cm)
- Large caliber gunshot wound through and through (GSW) – Shows bony landmarks and palpable vessel damage
- · Junctional wound in the shoulder area
- Easy to clean and transport (bag included)
- Low-cost

#### Bleeding:

- Bleeding of each wound is controlled with manual blood pump system simulating venous or arterial pulsatile blood hemorrhage
- Trainer functions as a stand-alone simulator but can be worn by a volunteer for added realism, and in field training using carrying strap of bag
- Bleeding can be simulated realistically, including direct feedback (stop of bleeding) when trainee successfully manages the hemorrhage – Bleeding stops when tourniquet has been correctly applied



- No back flow during wound packing
- Contains 250 mL of artificial blood concentrate

#### Settings:

- Application of tourniquet can be made high and tight or 5 to 8 cm (2 to 3 in.) above the wound
- Each wound can be hidden with dedicated cover to offer modular injury scenarios
- · Each wound bleeds independently
- · No batteries needed

#### Uses:

- Suitable for Tactical Combat Casualty Care (TCCC) and Civilian Casualty Care training
- For realistic training of bleeding control and management of traumatic injuries on the arm
- Trainer for hemorrhage control on upper extremity with realistic wound and bleeding simulation
- Trainees gain confidence in managing difficult bleeding using tourniquets and wound packing
- For field use

**DISCLAIMERS:** Note: Tourniquet not included





Phone 1-800-955-1177 Fax 1-800-955-0740 fisheredu.com

#### **Eisco™ Premium Practice Suture Kit**

Designed by a physician, this kit includes everything needed to practice suturing skills, including a variety of wound types and needle sizes. The innovative plastic suture pad is durable and can be reused many times.

- Designed for practicing suturing skills
- Endorsed by professionals for medical, nursing and veterinary students, as well as for surgical, emergency and anesthesia residents
- Innovative suture pad is durable and does not tear, allowing each cut to be sutured multiple times
- Features a realistic texture and a variety of common cuts and lacerations, irregular wounds, and Y-shaped wound for corner stitches
- Eisco Exclusive: cuts with irregular widths to approximate a wound that has been cleaned of debris, dead skin, plus slits to practice securing chest tubes, catheters, drains, and central lines
- Dimensions: 6.5 x 5.75 x 0.5 in.
- Complete practice kit includes: (1) suture pad, (1) needle holder, (1) toothed forceps, (1) fine suturing scissors, (5) braided silk sutures, (5) half circle needles, 19 mm & 37 mm, (2) tubing pieces
- For practice and educational use only

Cat. No.	Product Type	Price
S27476	Practice Pad	\$29.75/Ea
S27477	Complete Practice Kit	\$58.00/Ea



#### **Suture Practice Arm Dark Skin**

Arm with soft vinyl skin over foam enables hundreds of suture practice sessions.

- With three wounds, several cuts which can be placed all over arm, hand and fingers, and sutured several times
- Soft and pliable material guarantees that sutures will not pull out when tightened
- Comes with starter suturing kit that includes suturing needle and thread

Cat. No.	Price
S07958	\$333.00/Ea



### **Suture Practice Arm**

Simulated limbs with soft vinyl skin over stitchable foam provide a life-like suturing experience for students.

- Realistic skin texture with wrinkles and pores
- Soft and pliable for easy sewing; sutures will not pull out when tightened
- Each limb has three "wounds" that can be sutured repeatedly until surrounding skin wears out; then, new wounds can be cut
- Over 100 cuts can be made on the trainer, and each can be sutured several times
- · Includes starter suturing kit



Cat. No.	Price
S06807	\$373.00/Ea

#### **Suture Practice Arm**

Offers realistic anatomy that enables complex suture training.

- Movable fingers for suture training of challenging wounds between fingers
- Skin and subcutaneous tissue is differentiated for realistic suture experience
- Customized wounds can be inflicted by the instructor anywhere on the training arm
- Each cut can be sutured several times
- Surgical staples procedure is possible





## **Intramuscular Injection Simulator**

Features palpable anatomical landmarks that help students identify the correct placement for intramuscular injections.

- Built-in fine electronics produce audio-visual feedback of the result, e.g. correct or incorrect injection, bone contact, or wrong location
- Additional trainings and control modes provide an immediate or subsequent performance check under training conditions
- The life-like silicone skin is durable and easy to exchange as needed

#### Includes:

- 2 AA batteries
- · Detailed instruction manual
- · Replacement skin
- 5 mL injection syringe
- 21 gauge (0.8 x 50 mm) injection needle

Cat. No.	Product Type	Description	Price
S27329	Intramuscular Injection Simulator - Upper Arm	Features all of the important anatomical palpable landmarks such as acromion and humerus	\$1,917.00/Ea
S27328	Intramuscular Injection Simulator - Upper Leg	Features all of the important anatomical, palpable landmarks such as patella and greater trochanter	\$2,470.00/Ea



## **Advanced Four-Vein Venipuncture Training Aid**

#### Model permits the injection of fluids and withdrawal of blood.

Allows user to improve competency and technique by progressing from easier, larger veins to the more difficult, smaller and deeper veins

- Four barely discernable blue veins in three different sizes, with the fourth vein deeply placed in a semi-transparent, tissue-like material
- "Pop" is felt as the needle enters the vein, followed by a realistic "flashback" of simulated blood, confirming the proper needle placement
- Stain-resistant Dermalike<sup>™</sup> material offers 50% less needle drag when accessing the underlying veins, improved tear resistance to allow twice as many"sticks,"no"oily/sticky"surface and requires no baby powder
- The blue veins are made of Dermalike V<sup>n</sup>, a material with properties more similar to real veins, as you do not use excessive force to access the veins compared to the latex tubing still being used by other manufacturers
- Size:  $5 \times 10 \times 1.5$  in.

Cat. No.	Description	Price
S07960	Dark Pigmentation	\$408.00/Ea
S07959	Light Pigmentation	\$408.00/Ea



## I.V. Injection Arm

#### Realistic I.V. injection training for healthcare and medical teams.

Made of 3B SKINlike<sup>™</sup> silicone, this injection arm is suitable for group instruction because of its high quality, stain resistance and soft, easy-to-clean material.

#### Ideal for practicing:

 Intravenous injections (basilic vein, cephalic vein, median cubital vein and dorsal venous rete of hand)

- Correct puncture of peripheral veins for blood sampling
- · Positioning of a venous catheter
- Dimensions: 28.9 x 7.4 x 5.5 in. (74 x 19 x 14 cm)
- Weight: 6.2 lb. (2.8 kg)







fisheredu.com

## Twin Stim<sup>™</sup> Digital Electrotherapy Unit

A TENS and EMS combination for muscle stimulation and pain relief. The unit is a battery operated pulse generator that sends electrical impulses via electrodes to the body to reach the nerves and underlying muscle group.

- · Choice of five modes of TENS and two modes of EMS-synchronous and alternate
- · Dual channel with isolation between channels
- Asymmetrical, bi-phasic square pulse wave form
- · Stores 60 sets of operation records
- Adjustable pulse amplitude: 0 to 100mA peak into 500 Ohm load each channel
- Adjustable pulse rate: from 2 to 150Hz (1Hz/step)
- Adjustable pulse width: from 50 to 300 microseconds (10µS/step)
- Adjustable on time: 2 to 90 seconds (1 sec./step)

- Adjustable off time: 2 to 90 seconds (1 sec./
- Adjustable ramp time: 1 to 8 seconds (1 sec./
- Total recorded time: 999 hours
- Voltage: 0 to 50V
- · Adjustable timer: from 5 to 60 minutes or continuous (adjustable in 5 minutes each step); Treatment time countdown automatically
- Dimensions (L x W x H): 10.1 x 6.1 x 2.45 cm

**WARRANTY:** Three years.

**DISCLAIMERS:** Note: Requires prescription.





### **Patient Care Manikin PRO**

#### Developed for scenario-based patient care training

- · Simulates an adult, life-size patient, with interchangeable genitals
- · The flexible joint design allows users to place the manikin in a range of treatment positions
- Made of durable, unbreakable, and water-resistant plastics that can withstand everyday training

The following clinical nursing and patient care skills and competencies can be trained and evaluated:

#### Patient and personal care:

- · Transfer skills: lifting, carrying, and moving
- · Bed care
- · Position changing and alignment
- · Bathing (genital care)
- Hair care (washing, combing, drying)
- · Care and cleaning of eyes, ears and nose
- Personal hygiene and mouth denture care (partially removable prosthesis)
- · Bandaging (includes amputation residual limb) · Wound treatment and care (surgical staple seam,
- · Communication skills, especially step-by-step explanation of care measures

#### Medical care:

- · Prevention of bedsores (decubitus)
- · Decubitus evaluation (stages 2-4)
- · Decubitus care
- · Prevention of muscle cramps

laceration and abrasions)

- · Prevention of pneumonia
- Prevention of blood clots (thromboses)

- Prevention of healthcare associated infection (HAI) by measures of medical asepsis and clean techniques
- Inhalation therapy
- · Oxygen inhalation
- Use of ventilation bag (mouth to mouth and mouth to nose)
- Artificial respiration, oxygen treatment
- Care of tracheostomy
- Care of diabetic foot syndrome
- Ostomy care (colostomy)
- · Irrigation of eyes and ears
- Intramuscular injections (buttocks)
- Subcutaneous injections (upper arms and
- Subcutaneous infusions

The PRO version includes removable organs for these additional patient care training features:

- Enema administration
- Male and female catheterization CH14
- · Gastric (stomach) lavage
- · Intestinal irrigation

· Irrigation of the bladder · Irrigation of the vagina \$4,807.00/Ea



Cat. No.

S07108

# Cardionics SAM II™ Student Auscultation Manikin

Used for teaching heart, lung, and bowel sounds.

### **Product Features:**

- The SAM II trainer can be used with any stethoscope
- All sounds and videos are recorded from live patients for students to experience a life-like simulation
- Users can also create and save their own case videos
- A laptop is included and can be connected to the manikin for access to lessons and other helpful content.
- When connected to speakers (sold separately) SAM II Student Auscultation Manikin can be easily moved into a classroom or an auditorium for group instruction
- The programmable and password-protected lectures allow teaching institutions to have numerous instructors utilize the SAM II trainer

### **Delivery content:**

• Portable SAM II Male Auscultation Torso

- New DELL laptop computer pre-installed with auscultation teaching software, programmable and password-protected lectures
- Digital copy of SAM's lesson guide: located on the laptop in digital form, can be printed and used to support auscultation teaching anytime
- One SAM t-shirt
- User's manual

# How is SAM II Student Auscultation Manikin different from other auscultation products available on the market?

- It is lightweight and portable
- It has the largest library of sounds (24 sounds) and videos (36 videos)
- It has the complete lesson guide
- It can be used with any stethoscope
- It has a palpable carotid pulse
- Users can setup password-protected lectures for student assessment
- It is available in light and dark skin version

Cat. No.	Color	Price
S27941	Dark Skin	\$15,441.00/Ea
S27940	Light Skin	\$15,441.00/Ea



# Cardionics SAM Basic<sup>™</sup> Student Auscultation Manikin

Used to teach heart, lung, and bowel sounds.

### **Product Features:**

- SAM Basic Trainer can be used with the SimScope stethoscope (included)
- All sounds and videos are recorded from adult live patients for students to experience a life-like simulation
- SimScope stethoscope is used to simulate adult heart, lung and bowel sounds, utilizing a large sound library incorporated into the SimScope stethoscope
- Students will hear sounds through the SimScope as they place it over the heart, lungs and bowels
- Uses include: individual learning, group lectures, and for viewing phonocardiograms

### **Delivery content:**

• A portable SAM Basic Male Auscultation Torso

- One SimScope stethoscope
- The SimScope software and site license
- USB cable
- · One SAM t-shirt
- · User's manual

# How is SAM Basic Student Auscultation Manikin different?

- · Lightweight and portable
- It utilizes the extensive Cardionics proprietary heart, lung, bowel and bruit sounds library
- Students can listen at anatomically correct auscultation sites
- Customized Library is available to fit specific scenarios and programs
- The SimScope Wi-Fi upgrade allows for remote selection of sound scenarios

Cat. No.	Color	Price
S27945	Dark Skin	\$4,100.00/Ea
S27944	Light Skin	\$4,100.00/Ea





# **Airway Management Trainer with Stand**

Ideal for practicing airway management skills.

- Realistic size and anatomy
- Realistic anatomy includes mouth, tongue, oral pharynx, larynx, epiglottis, vocal cords, trachea, and esophagus
- · Separate lungs for auscultation

- Inflatable stomach bladder that indicates esophageal insufflation
- Practice suctioning and oral and nasal intubation techniques
- Includes a stand to mount the head

Cat. No.	Product Type	Price
S07965	Infant Airway Trainer	\$1,156.00/Ea
S07966	Child Airway Trainer	\$1,332.00/Ea



# **CPRLilly PRO+**

A training mannequin that enables instructors and healthcare providers to measure, monitor and analyze the CPR performance of up to 10 trainees at a time.

CPR CPRLilly Pro+ helps instructors increase effectiveness and efficiency in their CPR courses by connecting with the free CPRLilly App on tablet to follow the CPR performance and deliver objective feedback leading to Quality CPR training (App available on Apple and Google play). It also enables trainees to see and monitor their own performance in real-time with the student view of the App. LED lights located directly on mannequin's neck provide direct CPR feedback and indicate correct compressions parameters (depth, release and rate).

The easy-to-use App lets the instructor and trainees review CPR performance in real-time. Trainee performance can be tested with the results being saved for further analysis and debriefing.

### **Quality CPR Feedback:**

- · Compression depth, rate, and fraction
- Chest complete release
- Correct hand placement
- · Jaw thrust and head tilt control
- Appropriate ventilation volume

### **Key Training Features:**

- Quality CPR feedback with debriefing history
- Mouth-to-mouth and mouth-to-nose ventilation
- Ventilation with face shield, pocket mask and BVM
- · Chest rise with proper ventilation
- Control of proper airway desobstuction
- · Carotid pulses

- AED pads placement training capable
- Free App available on google play and iOS
- Constant analysis of CPR parameters for up to 10 mannequins simultaneously
- Individual review possibility in group training for more efficient training
- Adaptable to different course concepts
- Simplified student feedback view available with the CPRLilly App

# Solid mannequin for effective training:

- Made in Germany of extremely durable, latex-free material
- Face masks and lungs bags can be changed easily without tools
- Easy to clean with hygienic airway system
- Runs quietly with efficient power usage and rechargeable battery
- Stable Wi-Fi connection and intuitive App interface



- Dark skin mannequin available
- Includes:
- 1 CPRLilly PRO+ training mannequin
- 1 tablet (S27323 only)
- 1 charger and battery
- 4 lower face masks
- 25 throat bags
- 12 AED-Pad adapters
- · 1 carrying bag with training mat

 Cat. No.
 Price

 \$27323
 \$3,120.00/Ea



# Cardionics SimScope<sup>™</sup> The Hybrid Simulator without Wi-Fi

Allows a change or selection of pathological sounds and conditions for any standardized patient.

- SimScope plays the programmed heart, breath and bowel sounds specific to each correct anatomical location enabling a realistic standardized patient encounter
- The SimScope enables communication between the SimScope and the computer
- Allows for a selection and change of pathological sounds and conditions of any standardized patient, O.S.C.E. or low-fidelity manikin
- SimScope Patches are customizable and easily programmable for specific diagnostic case studies, up to 15 patches may be programmed and simultaneously activated to simulate real time auscultation during a physical exam
- Includes a SimScope, SimScope Patches, SimScope Software and USB cable



Cat. No.	Price
S27952	\$6,181.00/Ea

# Basic Life Support Simulator, BASICBilly+

Includes a direct CPR Feedback Upgrade Kit which enables students and instructors to effectively train CPR with free, accurate, and user friendly mobile apps powered by heartisense™.

# Solid and Compact Manikin for Effective Training:

- Made of easy-to-clean durable, latex free material
- Hygienic, with easy-to-change disposable airways
- Realistic anatomical landmarks to learn correct hand position for chest compression
- Mouth-to-mouth, mouth-to-nose or BVM resuscitation can be practiced
- Offers head-tilt functionality to open the airway or simulate obstructed airway
- Visible chest rise when the lungs are ventilated
- Force required for effective chest compressions has been carefully studied to offer a realistic training approach
- Operation requires (2) AA batteries, not included

# The CPR Apps Provide Feedback For:

- Compression (depth, recoil, and rate)
- Breath (volume)
- Hands-off time in real-time
- Feedback and evaluation meet the standard of the latest guidelines of the American Heart Association (AHA) and the European Resuscitation Council (ERC)

# Overview of the CPR App Features:

- Offers overall scoring and intuitive point of improvement during CPR
- Direct (real-time) and summative CPR feedback for students
- Instructor view can monitor up to 6 manikins at a time

- Saved student results for review
- Export or share students' result/certificate as a PDF file
- Instructor can use CPR analysis for detailed debriefing
- Easily switch from conventional CPR training to Compression Only CPR settings
- Stable connection is provided by a reliable Bluetooth connection
- Mobile devices used to access the apps are not included in the delivery scope
- An Upgrade Kit (1022626) is available to equip previously purchased BASICBilly manikins with the AHA required direct feedback functionality



111

Cat. No.	Color	Price
S27925	Dark Skin	\$495.00/Ea
S27924	Light Skin	\$495.00/Ea



# **Epidural and Spinal Injection Trainer**

Features realistic haptic feedback and a light, compact structure.

### **Functions:**

- Epidural anesthesia using the loss-of-resistance and the hanging-drop technique
- Spinal anesthesia with realistic resistance of the dura and arachnoid mater with or without a cannula
- Fluid-filled spinal canal with realistic outflow rate thanks to the ability to adjust the excess pressure
- Epidural catheter can be inserted into the epidural space
- Closed water system
- Easy to clean
- Suitable for both medical training and for specialist medical training

### Includes:

- Base body
- · Vertebral bar
- LOR insert (loss-of-resistance)
- Ski
- Spinal canal with connector
- Water collection container
- 10 cm tube
- 2 x 100 mL injections with cap
- · Spacer ring for injection
- Extension tube for the hanging-drop technique
- · Carry bag



 Cat. No.
 Price

 \$2,449.00/Ea
 \$2,449.00/Ea

# **Gynecologic Skills Trainer P91**

# Adult-sized lower torso designed to provide hands-on training of gynecologic skills.

Trainer will be useful for demonstrating the following procedures:

- Bi-manual examinations with palpable, realistic, normal and abnormal uteri
- Vaginal examination with speculum
- Train vaginal examination with easily interchangeable cervices and have visual recognition of normal and abnormal anatomy variations
- Evaluate multiple conditions using the interchangeable normal and pathologic cervices
- Pap test for cervical screening
- Practice catheterization (no fluid)
- Suppository administration and digital rectal examination

## **Additional Features:**

- SKINlike<sup>™</sup> high-quality silicone offers a realistic look, feel and texture
- Four different uteri modules with externally palpable abnormal pathologies are easily interchangeable and can be completed with 6 different cervices
- Adult-sized female lower torso with accurate anatomy, including ischial spines, pubic bones and sacrum
- The torso is in an examination position, and adding the examination wedge can further simulate a gynecologic exam chair position
- Bladder can be simulated full or empty

- Offers realistic flexibility of the vaginal canal wall
- Seamless, flexible skin for practice of speculum placement
- · Labia can be separated
- Urethra built for catheterization simulation with CH14 catheter
- Abdominal wall can be removed quickly and without any tools to change the uterus and the cervix
- Latex free

### Includes:

- Gynecologic Skills Trainer P91
- Uteri set (4):
- Normal uterus
- Bicornate uterus
- Uterus with 3 removable myomas structures
- Enlarged uterus
- Cervices Set (6):
- Normal nulliparous or para 0 cervix
- Normal multiparous cervix
- Ectropion cervix (erosion)
- Dysplasia cervix
- · Cervix with carcinoma
- · Cervix with barrel-shaped carcinoma
- · Gynecologic examination wedge
- Lubricant (2 x 250 mL)

 Cat. No.
 Pric

 \$27320
 \$1,565.00/E



# **Episiotomy and Suturing Trainer**

Provides training for managing and closing injuries associated with vaginal births.

- · Median, mediolateral, and lateral episiotomy
- · Vaginal tears
- Labial tears

# Muscle structures can be palpated and sutured in the perineal area:

- M. sphincter ani externus (outer anal sphincter muscle)
- M. transversus perinei superficialis (superficial transverse perineal muscle)
- M. bulbospongiosus (bulbospongiosus muscle)

### Features:

- Muscle and skin layers can be sutured separately
- Each cut can be sutured several times; by repeating the procedure, the midwifery and obstetrics students learn about professional wound management

- Suture technique can be recorded and assessed by the trainers so that students can improve, after which the students can practice again once the sutures have been removed
- Material used for the simulation of the tissue feels realistic, and it is easy to keep clean
- Complete trainer does not take up much room when stowed away
- Adjustable holder for the simulated tissue stands firmly on the table without slipping
- Insert can be taken out of the holder and then worked on while it is lying on the table
- · Latex-free, silicone-based material

### Includes:

Silicone insert



# **Birthing Stages Trainer**

Allows students in midwifery and obstetrics to practice, correctly assessing the progress of birth.

Trainer consists of a set of 6 inserts that show the level of cervical dilation and effacing. The inserts can be used both as stand-alone trainers and as an extension module for birth simulator P90. The inserts look the same from the outside, but indicate, using a number code on the back, the condition of the cervix on the inside.

# The following levels and birth stages are shown:

- Insert no. 1: cervix closed (0.5 cm), level -2
- Insert no. 2: cervix open 2 cm, level -2

- Insert no. 3: cervix open 3 cm, half effaced, level -2
- Insert no. 4: cervix open 5 cm, effaced, level -1
- Insert no. 5: cervix open 7 cm, effaced, level -1
- Insert no. 6: cervix open 9 cm, effaced, level 0

# Includes:

- 6 birth stage inserts
- Safety plate with 4 screws (for the optional insert in birth simulator P90)
- Lubricant
- · Carry bag

















# **P90 Birthing Simulators**

Provides training for normal and complicated deliveries, plus obstetric emergencies.

# Fetal positioning assessment and manipulation:

- The probability of delivery complications is less likely when abnormal fetal positions are detected before labor begins
- Students will learn fetal position detection methods, manual delivery techniques, and emergency intervention protocols

## Delivery skills and techniques covered:

- Normal vaginal delivery
- Normal delivery of umbilical cord and placenta
- Palpation and assessment of fetal position and presentation
- Diagnosis of all normal and abnormal fetal positions and presentations (like face, neck, or brow)
- Intrauterine manipulation of fetus
- Shoulder dystocia demonstration and management
- Breech deliveries (including complete, footling or incomplete, and frank breech presentation)
- · Palpation of fetal fontanelles features
- Complete and incomplete placenta birth
- Demonstration of placenta previa: total, partial, and marginal
- · Prolapse of umbilical cord
- · Nuchal umbilical cord
- · Cesarean delivery with incision
- Artificial rupture of membranes (ARM or AROM, amniotomy)
- Clamping and cutting of umbilical cord
- · Simulated suctioning of baby's mouth and nose
- · Leopold maneuver
- Pinard's maneuver
- Mauriceu-Smellie-Veit maneuver
- Prague maneuver
- · Woods maneuver

### Rubin

### Features:

- Fully articulated fetus with open mouth, tiltable head, shoulder blade, and anatomically-accurate fontanelles
- Life-sized adult female lower torso, anatomically-accurate landmarks like pelvis, pelvic cavity, and spine
- Manual birthing system to control rotation and speed of fetus delivery
- Easy to change position of fetus during birthing process including descent, flexion, extension, internal and external rotation, and restitution
- Uterus with correct positioning of fetus, inflatable to lift fetus for Leopold maneuver
- Easy change-out of parts through pin connections, no tools necessary
- Anti-slip base and handles for extra support on tables
- · Belt for fastening to table or bed
- Made of soft vinyl (hard for inner structures) and silicone
- · Easy to clean

### Includes:

- Birthing simulator PRO or Basic
- Detachable, padded stomach cover with advanced insert for caesarian section
- Inflatable uterus insert for Leopold maneuver including cover that can be cut for caesarian section
- Birth canal (portio, cervix, vulva)
- Fastening belt
- Lubricant
- · Amniotic fluid and 100 inserts
- · Assembly kit
- Fully articulated fetal baby
- · Umbilical cord
- Placenta

Cat. No.	Description	Price
S27321	Birthing Simulator PRO	\$1,979.00/Ea
S27314	Birthing Simulator - Basic	\$1,373.00/Ea

# **Episiotomy Suture Training Module**

Training Module for use with P90 Birthing Simulator

Cat. No.	Description	Price
S27316	Episiotomy suture training module	\$279.00/Ea





# **Postpartum Hemorrhage Trainer P97 Module**

Designed to be easily integrated into the Birthing Simulator P90 PRO and BASIC.

This versatile obstetric training tool offers a SKINlike™ high-quality silicone vaginal canal and post-partum cervix. The pump attachment allows easy adjustment of the uterine tone to simulate an atonic or contracted uterus.

The PPH trainer module will be useful for training the following procedures:

- · Delivery of placenta, also incomplete
- Identification of the post-partum hemorrhage bleeding nature: uterus bleeding, cervix bleeding (rupture), vaginal bleeding (lesion)
- Visual estimation of the blood loss volume up to 1.5 L

- · Atonic uterus management
- Practice the fundal massage
- Practice bimanual compression
- · Practice catheterization with CH14 catheter

### Includes:

- PPH Trainer P97- Module
- Blood reservoir 1.500 mL
- Blood reservoir stand
- Artificial blood concentrate (2 x 250 mL)
- 2 placentas



 Cat. No.
 Price

 \$27315
 \$870.00/Ea

# Postpartum Hemorrhage Trainer – PPH Trainer P97

Versatile and realistic obstetric training tool that offers accurate anatomy, including ischial spines, pubic bones and sacrum. For a realistic feel and texture in addition to a life-like softness, the vaginal canal and post-partum cervix have been made in SKINlike<sup>™</sup> high-quality silicone.

Useful for training the following procedures:

- Delivery of placenta, also incomplete
- Identification of the post-partum hemorrhage bleeding nature: uterus bleeding, cervix bleeding (rupture), vaginal bleeding (lesion)
- Visual estimation of the blood loss volume up to 1.5 L
- · Atonic uterus management
- · Practice the fundal massage
- · Practice bimanual compression

- Practice catheterization with CH14 catheter
- Pump attachment allows easy adjustment of the uterine tone to simulate an atonic or contracted uterus

### Includes:

- PPH Trainer P97
- Blood reservoir 1.500 mL
- Blood reservoir stand
- Artificial blood concentrate (2 x 250 mL)
- · 2 placentas

 Cat. No.
 Price

 \$27317
 \$1,471.00/Ea

# **Prostate Examination Trainer**

Used in medical simulation and clinical training for the demonstration and practice of digital rectal examinations.

Includes 4 different prostates to train professional palpation methods (side position or bent forward) and diagnostic skills associated with rectal examinations

### The following stages are included:

- · Normal prostate
- Advanced prostate carcinoma
- Prostate carcinoma at an early stage
- Benign prostatic hyperplasia (BPH)

For reference and self-control, the trainer also includes the corresponding transrectal sonographic imaging (transrectal ultrasound, TRUS) for each stage. While in use, the prostate and the sonographic images are hidden and cannot be seen by the trainee. The compact shape of the DRE Trainer makes it easy to store and the perfect skill trainer for every medical simulation lab.



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 Cat. No.
 Price

 \$27326
 \$239.00/Ea



# **P93 PRO Male Catheterization Simulator**

Procedures can be realistically demonstrated, practiced and assessed. Simulator has suprapubic catheter which students can use with the trainer.

- Male catheterization with realistic resistance
- · Three levels of adjustable narrowing of urethra
- · Soft and movable foreskin
- · Anatomically realistic pelvic structure
- Liquid outflows if catheterization is successfully carried out
- Transparent bladder can be checked, and the abdominal wall can be removed
- Includes suprapubic catheter for practicing, cleaning and caring
- Stands securely on table with the help of non-slip feet
- Magnetic connectors for quick set-up and dismantling
- Easy to clean, maintain and can be completely taken apart
- Sponge present inside prevents build-up of moisture

WARRANTY: 3 Year





# **Decubitus Trainer**

Allows students to learn about professional wound assessment (examination, measurement and description), wound care and bandaging techniques for various stages of decubitus.

Flexible material provides realistic training in changing and applying dressings and bandages, which form a considerable part of nursing and wound care.

Decubitus stages are shown on the trainer:

- Grade 1 (Greater trochanter Right): Redness, but the skin is intact
- Grade 2 (Buttocks Right): Partial skin loss is visible.
   Epidermis shows signs of damage which extends into the dermis (corium). Superficial pressure injury shown can manifest itself through the development of blisters and skin abrasions.
- Grade 3 (Buttocks Left): Recognized by the loss of all layers of the skin with damage to the subcutaneous tissue,

through to necrosis. Distinguished by black coloration in the wound area.

 Grade 4 (Greater Trochanter – Left, Sacrum): All skin layers and muscle fascia have been destroyed. Necrotic areas have been marked black. Muscles and bone areas below this layer are also affected and damage can become necrotic. Supporting structures such as tendons, ligaments or joint structures can also be affected. Pocket formations, more or less extended, can also be seen.



 Cat. No.
 Price

 \$27330
 \$1,164.00/Ea

# **Buttock Injection Simulator**

High-quality, life-like strap-on intramuscular simulator of a right buttock.

Simulator features anatomical landmarks for intramuscular (I.M.) injections:

- Iliac crest
- Anterior superior iliac spine
- Greater trochanter

### Features:

- Integrated fine electronics provide graphic feedback when training the intramuscular injection technique, and correctly administered injections will produce audiovisual feedback
- Additional training and control modes are available for checking results either immediately or upon completion of a training session
- Includes a 21 g/0.8 injection needle and 5 mL syringe

 Cat. No.
 Price

 \$27327
 \$2,470.00/Ea



# **Diabetic Foot Treatment Trainer**

Features a gangrenous alteration on the big toe of the right foot that has spread from the back of the foot to the metatarsal.

- Mal perforans (trophic ulcer) visible on the sole of the foot (plantar)
- Grade 3 pressure-ulcer depicted in the heel area
- Complete skin layer is lost and the subcutaneous tissue is damaged up to necrosis
- · Black colouration in the wound area

**Price** \$196.00/Ea



Cat. No.

S27331

Leg not

included



Description	Cat. No.	Quantity
Personal Protective Equipment		
Fisherbrand™ Powder Free Nitrile Gloves	S79585S	100/Pack
Fisherbrand Powder Free Nitrile Gloves	S79585M	100/Pack
Fisherbrand Powder Free Nitrile Gloves	S79585L	100/Pack
Fisherbrand Powder Free Nitrile Gloves	S79585XL	100/Pack
N95 Particulate Respirators 8210	S47062A	20/Pack
Eisco™ Disposable Pleated Face Masks	S27422	50/Pack
Eisco Disposable Pleated Face Masks	S27423	50/Pack
Disposable Masks Zero Waste Box™ System	S88854115	Each
Fisherbrand™ Racer Series Qualifier Eyewear	S98420	12/Pack
First Aid		
Fisherbrand Latex-Free Cohesive Flexible Bandages, Assorted Colors	S25053	30/Case
Bandage Scissors, Stainless Steel	S72160	Each
Disposable Alcohol Swabs	S17032	100/Pack
Adhesive Bandages	S47527C	100/Pack
Stat Strip Adhesive Bandages	S47527D	100/Pack
50-Person Trauma First Aid Kit	S29676	Each
School Emergency Kits		
Hi-Visibility Teacher and Staff School Emergency Kit	S29690	Each
Hi-Visibility Classroom Evacuation and Lockdown Kit	S29692	Each



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nurse's office. Visit **fisheredu.com** to shop for more science education products.

Description	Cat. No.	Quantity
Laboratory Furniture		
Diversified Spaces™ Tall Storage Cabinet with Glass Doors	S14213	Each
Diversified Spaces Mobile Storage Cabinet with Maple Top	S42457	Each
Diversified Spaces Hot Water Mobile Station	S47366	Each
Fisherbrand Vinyl Stool without Back Chrome – Desk Height with Casters in Grade A Vinyl	S0100775	Each
Educational Models		
Consequences of An Inactive Lifestyle 3D Display	S00282	Each
The Consequences of Obesity 3D Display	S00279	Each
The NEW Heart of America PLUS with Coronary Bypass Vessels	S00280	Each
Biohazard Waste		
Bel-Art™ Biohazard Disposal Bags with/without Warning Label	S43258	100/Pack
Bel-Art Biohazard Disposal Can	S96727	Each
Facility Safety		
Gel No-Rinse Skin Cleansers	S66873	Each
Gel No-Rinse Skin Cleansers	S66874	Each
Faucet-Mount Eyewashes	S47621	Each

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# Terms and Conditions of Sale

Unless otherwise expressly agreed in writing, all sales are subject to the following terms and conditions:

**GENERAL:** Fisher Scientific Company L.L.C. ("Seller") hereby offers for sale to the buyer named in the order ("Buyer") the products listed on the face hereof (the "Products") on the express condition that Buyer agrees to accept and be bound by the terms and conditions set forth herein. Any provisions contained in any document issued by Buyer are expressly rejected and if the terms and conditions in this Agreement differ from the terms of Buyer's offer, this document shall be construed as a counter offer and shall not be effective as an acceptance of Buyer's document. Buyer's receipt of Products or Seller's commencement of the services provided hereunder will constitute Buyer's acceptance of this Agreement. This is the complete and exclusive statement of the contract between Seller and Buyer with respect to Buyer's purchase of the Products. No waiver, consent, modification, amendment or change of the terms contained herein shall be binding on Seller unless in writing and signed by Seller and Buyer. Notwithstanding the foregoing, Seller reserves the right to make changes to these Terms and Conditions of Sale at any time by posting such changes here, and such changes shall apply to orders of Products made by Buyer thereafter. Seller's failure to object to terms contained in any subsequent communication from Buyer will not be a waiver or modification of the terms set forth herein. All orders are subject to acceptance in writing by an authorized representative of Seller. Seller reserves the right to reject any order for any reason. By purchasing products from Seller, Buyer agrees that it is purchasing the Products only for its own use and not for purposes of resale. Products purchased pursuant to these Terms and Conditions may not be sold or transferred to any person or entity for purposes of resale. Seller reserves the right to take any action it deems necessary to address Buyer's violation of these terms, including, but not limited to, the suspension of Buyer's ability to purchase Products.

**PRICE:** All prices published by Seller or quoted by Seller's representatives may be changed at any time without notice. All prices quoted by Seller or Seller's representatives are valid for thirty (30) days, unless otherwise stated in writing. All prices for the Products will be as specified by Seller or, if no price has been specified or quoted, will be Seller's price in effect at the time of shipment. All prices are subject to adjustment on account of specifications, quantities, raw materials, cost of production, shipment arrangements or other terms or conditions which are not part of Seller's original price quotation. List prices may vary from the price displayed on the website for certain products.

**TAXES AND OTHER CHARGES:** Prices for the Products exclude all sales, value added and other taxes and duties imposed with respect to the sale, delivery, or use of any Products covered hereby, all of which taxes and duties must by paid by Buyer. If Buyer claims any exemption, Buyer must provide a valid, signed certificate or letter of exemption for each respective jurisdiction.

**TERMS OF PAYMENT:** Seller may invoice Buyer upon shipment for the price and all other charges payable by Buyer in accordance with the terms on the face hereof. If no payment terms are stated on the face hereof, payment shall be net thirty (30) days from the date of invoice. If Buyer fails to pay any amounts when due, Buyer shall pay Seller interest thereon at a periodic rate of one and one-half percent (1.5%) per month (or, if lower, the highest rate permitted by law), together with all costs and expenses (including without limitation reasonable attorneys' fees and disbursements and court costs) incurred by Seller in collecting such overdue amounts or otherwise enforcing Seller's rights hereunder. Seller reserves the right to require from Buyer full or partial payment in advance, or other security that is satisfactory to Seller, at any time that Seller believes in good faith that Buyer's financial condition does not justify the terms of payment specified. All payments shall be made in U.S. Dollars.

**DELIVERY; CANCELLATION OR CHANGES BY BUYER:** The Products will be shipped to the destination specified by Buyer, F.O.B. Seller's shipping point. Seller will have the right, at its election, to make partial shipments of the Products and to invoice each shipment separately. Seller reserves the right to stop delivery of Products in transit and to withhold shipments in whole or in part if Buyer fails to make any payment to Seller when due or otherwise fails to perform its obligations hereunder. All shipping dates are approximate only, and Seller will not be liable for any loss or damage resulting from any delay in delivery or failure to deliver which is due to any cause beyond Seller's

reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control, Seller reserves the right to terminate the order or to reschedule the shipment within a reasonable period of time, and Buyer will not be entitled to refuse delivery or otherwise be relieved of any obligations as the result of such delay. Products as to which delivery is delayed due to any cause within Buyer's control may be placed in storage by Seller at Buyer's risk and expense and for Buyer's account. Orders in process may be canceled by Buyer only with Seller's written consent and upon payment of Seller's cancellation charges. Orders in process may not be changed by Buyer except with Seller's written consent and upon agreement by the parties as to an appropriate adjustment in the purchase price therefore. Credit will not be allowed for Products returned without the prior written consent of Seller.

**TITLE AND RISK OF LOSS:** Notwithstanding the trade terms indicated above and subject to Seller's right to stop delivery of Products in transit, title to and risk of loss of the Products will pass to Buyer upon delivery of possession of the Products by Seller to the carrier; provided, however, that title to any software incorporated within or forming a part of the Products shall at all times remain with Seller or the licensor(s) thereof, as the case may be.

WARRANTY: Seller warrants that the Products will operate or perform substantially in conformance with Seller's published specifications and be free from defects in material and workmanship, when subjected to normal, proper and intended usage by properly trained personnel, for the period of time set forth in the product documentation, published specifications or package inserts. If a period of time is not specified in Seller's product documentation, published specifications or package inserts, the warranty period shall be one (1) year from the date of shipment to Buyer for equipment and ninety (90) days for all other products (the "Warranty Period"). Seller agrees during the Warranty Period, to repair or replace, at Seller's option, defective Products so as to cause the same to operate in substantial conformance with said published specifications; provided that Buyer shall (a) promptly notify Seller in writing upon the discovery of any defect, which notice shall include the product model and serial number (if applicable) and details of the warranty claim; and (b) after Seller's review, Seller will provide Buyer with service data and/or a Return Material Authorization ("RMA"), which may include biohazard decontamination procedures and other product-specific handling instructions, then, if applicable, Buyer may return the defective Products to Seller with all costs prepaid by Buyer. Replacement parts may be new or refurbished, at the election of Seller. All replaced parts shall become the property of Seller. Shipment to Buyer of repaired or replacement Products shall be made in accordance with the Delivery provisions of the Seller's Terms and Conditions of Sale.

Consumables are expressly excluded from this warranty. If Seller elects to repair defective medical device instruments, Seller may, in its sole discretion, provide a replacement loaner instrument to Buyer as necessary for use while the instruments are being repaired.

Notwithstanding the foregoing, Products supplied by Seller that are obtained by Seller from an original manufacturer or third party supplier are not warranted by Seller, but Seller agrees to assign to Buyer any warranty rights in such Product that Seller may have from the original manufacturer or third party supplier, to the extent such assignment is allowed by such original manufacturer or third party supplier.

In no event shall Seller have any obligation to make repairs, replacements or corrections required, in whole or in part, as the result of (i) normal wear and tear, (ii) accident, disaster or event of force majeure, (iii) misuse, fault or negligence of or by Buyer, (iv) use of the Products in a manner for which they were not designed, (v) causes external to the Products such as, but not limited to, power failure or electrical power surges, (vi) improper storage and handling of the Products or (vii) use of the Products in combination with equipment or software not supplied by Seller. If Seller determines that Products for which Buyer has requested warranty services are not covered by the warranty hereunder, Buyer shall pay or reimburse Seller for all costs of investigating and responding to such request at Seller's then prevailing time and materials rates. If Seller provides repair services or replacement parts that are not covered by this warranty, Buyer shall pay Seller therefor at Seller's then prevailing time and materials rates. ANY INSTALLATION, MAINTENANCE, REPAIR, SERVICE, RELOCATION OR ALTERATION TO OR

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OF, OR OTHER TAMPERING WITH, THE PRODUCTS PERFORMED BY ANY PERSON OR ENTITY OTHER THAN SELLER WITHOUT SELLER'S PRIOR WRITTEN APPROVAL, OR ANY USE OF REPLACEMENT PARTS NOT SUPPLIED BY SELLER, SHALL IMMEDIATELY VOID AND CANCEL ALL WARRANTIES WITH RESPECT TO THE AFFECTED PRODUCTS.

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Notwithstanding the above, Seller's infringement related indemnification obligations shall be extinguished and relieved if Seller, at its discretion and at its own expense (a) procures for Buyer the right, at no additional expense to Buyer, to continue using the Product; (b) replaces or modifies the Product so that it becomes non-infringing, provided the modification or replacement does not adversely affect the specifications of the Product; or (c) in the event (a) and (b) are not practical, refund to Buyer the amortized amounts paid by Buyer with respect thereto, based on a five (5) year amortization schedule. The foregoing indemnification provision states Seller's entire liability to Buyer for the claims described herein.

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option of the Seller, to settle the same. Buyer agrees to cooperate reasonably with Seller in connection with the performance by Seller of its obligations in this Section.

Notwithstanding the above, Seller's infringement related indemnification obligations shall be extinguished and relieved if Seller, at its discretion and at its own expense (a) procures for Buyer the right, at no additional expense to Buyer, to continue using the Product; (b) replaces or modifies the Product so that it becomes non-infringing, provided the modification or replacement does not adversely affect the specifications of the Product; or (c) in the event (a) and (b) are not practical, refund to Buyer the amortized amounts paid by Buyer with respect thereto, based on a five (5) year amortization schedule. THE FOREGOING INDEMNIFICATION PROVISION STATES SELLER'S ENTIRE LIABILITY TO BUYER FOR THE CLAIMS DESCRIBED HEREIN.

Buyer shall indemnify, defend with competent and experienced counsel and hold harmless Seller, its parent, subsidiaries, affiliates and divisions, and their respective officers, directors, shareholders and employees, from and against any and all damages, liabilities, actions, causes of action, suits, claims, demands, losses, costs and expenses (including without limitation reasonable attorneys' fees and disbursements and court costs) to the extent arising from or in connection with (i) the negligence or willful misconduct of Buyer, its agents, employees, representatives or contractors; (ii) use of a Product in combination with equipment or software not supplied by Seller where the Product itself would not be infringing; (iii) Seller's compliance with designs, specifications or instructions supplied to Seller by Buyer; (iv) use of a Product in an application or environment for which it was not designed; or (v) modifications of a Product by anyone other than Seller without Seller's prior written approval.

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**ACCEPTABLE PAYMENT METHODS:** The Seller prefers to receive payment via ACH or other electronic interface methods that directly exchange funds between the Buyer's and Seller's bank accounts. The Seller also accepts checks mailed to one of its lockbox remittance locations. Although the Seller does accept credit card payments at the time of purchase, it does not accept credit card payments after the point of sale.

PROMOTIONAL TERMS FOR HEALTHCARE PROVIDERS AND FEDERAL, STATE AND LOCAL GOVERNMENT CUSTOMERS: Many promotions are not available to our current or potential healthcare customers or to federal, state and local government customers.

Healthcare customers include any healthcare practitioner, other healthcare provider or any individual or organization authorized to prescribe, dispense, purchase or influence the acquisition or use of medical devices or supplies for clinical use. Healthcare customers include, without limitation, any "Health Care Practitioner" under the Massachusetts Marketing Code of Conduct Law (defined at 105 C.M.R §907.004) or a "Health Care Provider" under the Vermont Prescribed Products Gift Ban and Disclosure Law (defined at Vt. Stat. Ann. tit. 18, §4631a(8)). By participating in any promotion that is subject to the above limitations, Buyer warrants that it is not a current or potential healthcare customer or a federal, state and local government customer. Seller reserves the right to determine Buyer's status in the event of a dispute.

In the event that the promotion is available to Healthcare providers, Buyer acknowledges that the offer may include a discount or other price reduction that must be properly and accurately accounted for and reported by Buyer in accordance with all federal and state laws, including without limitation the federal anti-kickback law (42 C.F.R. § 1320a-7b(b) (3)(A)) and regulations thereunder (42 C.F.R. §1001.952(h)).

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in Allegheny County, Pennsylvania, USA, in any action arising out of or relating to this Agreement and waives any other venue to which it may be entitled by domicile or otherwise. (c) In the event of any legal proceeding between the Seller and Buyer relating to this Agreement, neither party may claim the right to a trial by jury, and both parties waive any right they may have under applicable law or otherwise to a right to a trial by jury. Any action arising under this Agreement must be brought within one (1) year from the date that the cause of action arose. (d) The application to this Agreement of the U.N. Convention on Contracts for the International Sale of Goods is hereby expressly excluded. (e) In the event that any one or more provisions contained herein shall be held by a court of competent jurisdiction to be invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein shall remain in full force and effect, unless the revision materially changes the bargain. (f) Seller's failure to enforce, or Seller's waiver of a breach of, any provision contained herein shall not constitute a waiver of any other breach or of such provision. (g) Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to humans or animals. (h) Seller shall cooperate with Buyer to monitor invoicing accuracy and will conduct appropriate internal reviews upon request. Reviews shall be limited to once per year and shall cover the prior twelve month period. Reasonable credit shall be given to undercharges and overcharges. If Buyer engages external consultants to review invoice accuracy, Seller reserves the right to charge a reasonable fee for support provided to such party. (i) Buyer agrees that all pricing, discounts and technical information that Seller provides to Buyer are the confidential and proprietary information of Seller. Buyer agrees to (1) keep such information confidential and not disclose such information to any third party, and (2) use such information solely for Buyer's internal purposes and in connection with the Products supplied hereunder. Nothing herein shall restrict the use of information available to the general public. (j) Any notice or communication required or permitted hereunder shall be in writing and shall be deemed received when personally delivered or three (3) business days after being sent by certified mail, postage prepaid, to a party at the address specified herein or at such other address as either party may from time to time designate to the other. (k) Seller may, in its sole discretion, provide (1) applicable Product training to Buyer or its employees, or (2) samples of Products to Buyer for distribution to patients of Buyer. Buyer agrees that any such samples shall be distributed to patients for patient use or, if not so distributed, returned to Seller. Buyer shall not use such samples to provide care to patient and shall not bill patients or third party payers for the provision of such samples.

**ACCEPTABLE PAYMENT METHODS:** The Seller prefers to receive payment via ACH or other electronic interface methods that directly exchange funds between the Buyer's and Seller's bank accounts. The Seller also accepts checks mailed to one of its lockbox remittance locations. Although the Seller does accept credit card payments at the time of purchase, it does not accept credit card payments after the point of sale.

**MEDICARE/MEDICAID REPORTING REQUIREMENTS:** If Buyer is a recipient of Medicare/Medicaid funds, Buyer acknowledges that it has been informed of and agrees to fully and accurately account for, and report on its applicable cost report, the total value of any discount, rebate or other compensation paid hereunder in a way that complies with all applicable federal, state and local laws and regulations which establish "Safe Harbor" for discounts. Buyer shall make written request to Seller in the event Buyer requires additional information from Seller in order to meet its reporting requirements. Buyer acknowledges that agreement to such reporting requirement was a condition precedent to Seller's agreement to provide Products and that Seller would not have entered into this Agreement had Buyer not agreed to comply with such obligations.

**PRODUCT DESCRIPTIONS:** Product Descriptions are provided by the manufacturer of the product and are current as of the date of printing of this catalog. More current descriptions provided by the manufacturers are reflected at **fisheredu.com**.

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All pricing subject to change.

If you don't have an account and would like one, we'll be happy to set up a user account for you — simply call Customer Service at **1-800-955-1177**.

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### SHIPPING YOUR ORDER

We want your purchase to arrive promptly and undamaged. To ensure this, we only deliver products to a street address, not to a Post Office Box — please remember this when placing your order. Other things to consider for product shipping include:

**How should we ship your purchase?** We will ship according to your special instructions, whenever possible. Otherwise, we will select the best shipment method, based on the nature of the material, destination, package size and weight.

**Do you need extra-quick delivery?** Overnight shipping is available for many products at an additional cost, but certain hazardous materials may be exempt from this service — please ask your Customer Service Representative when placing your order.

**Is motor freight necessary?** Some items must be shipped by motor freight (rather than by small parcel carriers) and will have different shipping costs. These items are noted in our catalog with a "Motor Freight" icon. Call your Customer Service Representative for assistance in calculating these expenses.

**Is the material hazardous?** There is a single charge of \$27.50 per order for hazardous materials, no matter how many hazardous items are on your order.

**Is your purchase live or time-sensitive?** Be sure to specify the desired delivery date for all live material orders. Some live products have minimum purchase requirements, require special handling fees or have shipping restrictions. Contact Customer Service for specific details.

### **ONCE YOU RECEIVE YOUR ORDER**

**Inspect your shipment!** Open and inspect your order immediately upon arrival and notify us of any problems. Report claims for damage within the seven (7) day period after delivery to allow us to remedy problems with shipping companies.

**Want to return a product?** The dedicated staff at Fisher Science Education Customer Service is committed to resolving any questions or problems you may encounter. Here are the steps to take:

- Please notify us no later than seven (7) days after delivery of any damaged or unsatisfactory shipments
- Obtain a return authorization number from Fisher Science Education Customer Service prior to returning any product.
- Provide the Fisher Science Education Confirmation Number, found in the upper left hand corner of the packing slip or invoice, or your account number and the purchase order number.

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Products in this catalog are intended for use by children age 13 or over.

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