



STEM/CTE

Fisher Science Education 2022 Product Catalog

Featured Suppliers



CORNING



thermo scientific



fisherbrand



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

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.

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Address: Fisher Science Education
4500 Turnberry Drive
Hanover Park, IL 60133

For international orders, see page 120.

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

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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 2022 catalogs:

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



Icebergs are chunks of freshwater ice that have broken away from glaciers. The smallest ones are called “growlers” or “bergy bits.”

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.



Optimize Your Classroom Layout

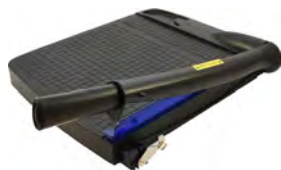
Forward Vision Mobile Table Series

- Two Table Heights: 30" and 36"
- Two Wood Options: Oak or Maple
- Unique Top Shape Allows for Multiple Configurations
- Utilize as a Two or Four-Student Table
- Phenolic Top for Science Environments
- Solid Wood Apron with 2-1/4" Wood Legs
- Heavy-Duty 13-Gauge Steel Corner Braces with 5/16" Hanger Bolts Attach Legs to Apron
- Protected with a Chemical-Resistant, Earth-Friendly UV Finish
- Five Locking, Swivel Casters
- Fully Assembled

Cat. No.	Description	Top	Size	Price
S80771	Forward Vision Mobile Table - Oak	Phenolic	84"W x 44"D x 30"H	\$3,025.00
S80772	Forward Vision Mobile Table - Oak	Phenolic	84"W x 44"D x 36"H	\$3,082.00
S80773	Forward Vision Mobile Table - Maple	Phenolic	84"W x 44"D x 30"H	\$3,142.00
S80774	Forward Vision Mobile Table - Maple	Phenolic	84"W x 44"D x 36"H	\$3,173.00

NEW
Featured
Products

WESTCOTT



Measure Twice, Cut Once

Know exactly where to make cuts big and small with a ruler, scissors, and a guillotine trimmer.

Description	Cat. No.	Price
Westcott™ Multi-Purpose Guillotine Trimmer	S81758	\$88.00
Westcott Stainless Steel Office Ruler with Non-Slip Cork Base	S81752	\$9.15
Westcott KleenEarth Straight Recycled Stainless-Steel Scissors	S81751	\$21.75
Westcott Hard Handle Kids Scissors	S81745	\$3.40

kemtec
excite. encourage. inspire.



Hands-On Investigation

Guide students through the investigative process of a blood spatter detective with an inquiry-based activity.

Description	Cat. No.	Price
Kemtec™ Designing Investigation in Blood Spatter Kit	S27540	\$161.00

eisco
Trust | Deliver | Learn



Demonstrate Concepts

Show your students how to create electronics samples and measure with a Vernier caliper.

Description	Cat. No.	Price
Eisco™ Physics Electronics Systems Set, 18 Pieces	S27351	\$662.00
Eisco™ Large Vernier Caliper Demonstration, 24 in.	S15105	\$33.25

United Scientific

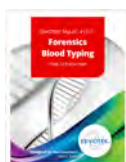


Measure Lines and Angles

These classic tools cover all your basic measuring needs.

Description	Cat. No.	Price
United Scientific™ 12 in. Ruler with Center Groove	S111006	\$1.05
United Scientific Student Protractor	S111004	\$1.90

EDVOTEK



Learn Basic Detection Techniques

Swab a simulated crime scene to detect blood, analyze blood type, and understand presumptive versus confirmatory testing.

Description	Cat. No.	Price
EDVOTEK™ MyLab™ Forensics Blood Typing Kit	S06464	\$35.00

Innovating Science™ by Alden Corporation
"cutting edge science for the classroom"



Determine Blood Type

Understand blood typing, antigens, and inheritance properties using simulated crime scene samples.

Description	Cat. No.	Price
Innovating Science™ Distance Learning: Forensic Chemistry of Blood Typing	S08199	\$20.75

Learning Loss & Remote Learning

Learning Loss

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 workbook 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.

Cat. No.	Description	Price
S81806	Grades: Pre-K to K	12.50/Ea
S81807	Grades: K to 1	12.50/Ea
S81808	Grades: 1 to 2	12.50/Ea
S81809	Grades: 2 to 3	12.50/Ea
S81810	Grades: 3 to 4	12.50/Ea
S81811	Grades: 4 to 5	12.50/Ea
S81812	Grades: 5 to 6	12.50/Ea
S81813	Grades: 6 to 7	12.50/Ea
S81814	Grades: 7 to 8	12.50/Ea

Nine workbooks cover grades Pre-K through 8. Each workbook includes:

- 160 pages, about 8 in. x 10.5 in.
- 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).

Pre-K to K (S81806), ages 4-5. Includes versatile subjects covering phonics, handwriting, counting numbers. With reward stickers.

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

1 to 2 (S81808), ages 6-7. Writing, parts of speech, adding and subtracting.

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

3 to 4 (S81810), ages 8-9. Reading passages, word problems.

4 to 5 (S81811), ages 9-10. Reading passages, grammar, multiplication and division.

5 to 6 (S81812), ages 10-11. Grammar, writing skills, fractions, solving equations.

6 to 7 (S81813), ages 11-12. Writing skills, root words, factors, graphing, dictionary skills.

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

Summer Bridge Essentials™ Backpacks

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)
- Four books (two nonfiction and two fiction)
- Drawstring bag and user guide
- 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 (S81821), ages 10-11. Flash cards for enhancing division skills.

Cat. No.	Description	Price
S81815	Grades: Pre-K to K	34.50/Ea
S81816	Grades: K to 1	34.50/Ea
S81817	Grades: 1 to 2	34.50/Ea
S81818	Grades: 2 to 3	34.50/Ea
S81819	Grades: 3 to 4	34.50/Ea
S81820	Grades: 4 to 5	34.50/Ea
S81821	Grades: 5 to 6	34.50/Ea

Online Learning Program — 1 Year Class License

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



- For one teacher and up to 150 students
- 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 future semester or share them with colleagues



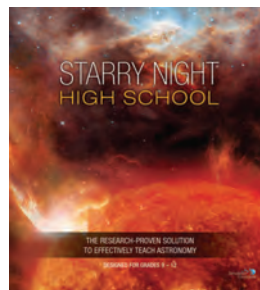
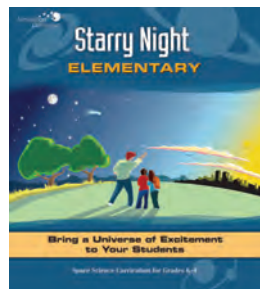
Cat. No.	Description	Price
S98490	K to High School Online Learning Program	199.00/Ea

Starry Night Astronomy Lessons

Easy-to-use, complete curriculum for astronomy education.



- Up to 35 student logins and 1 instructor per license
- Lesson plans joined to exercises and hundreds of simulations, animations and images
- Teachable Moments feature keeps content fresh and relevant
- Lessons are correlated to state standards and the NGSS
- 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 topics in math, physics, language arts, social studies and technology
- 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™ iPad™ Android™ Windows™ and Mac™ Compliant



Starry Night Elementary Astronomy (S80706)

- For grades K-4
- Lesson plans: 8

Starry Night Middle School Astronomy (S80707)

- For grades 5-8
- Lesson plans: 28

Starry Night High School Astronomy (S80708)

- For grades 9-12
- Lesson plans: 35

Starry Night College Astronomy (S80709)

- For AP and Higher Education
- Lesson plans: 45

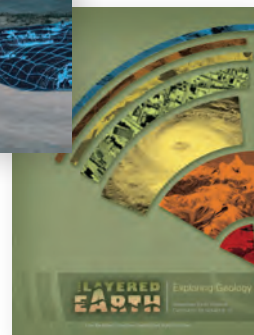
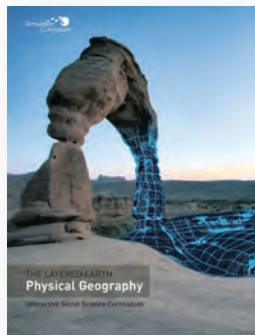
Cat. No.	Description	Price
S80706	Starry Night Elementary Astronomy	300.00/Ea
S80707	Starry Night Middle School Astronomy	500.00/Ea
S80708	Starry Night High School Astronomy	500.00/Ea
S80709	Starry Night College Astronomy	500.00/Ea



Layered Earth Geology, Meteorology, Physical Geography Lessons

Easy-to-use, complete digital lesson plans teach different aspects of earth science.

- Up to 35 student logins and 1 instructor per license
- Up to 50 lesson plans joined to exercises and hundreds of simulations, interactions and images
- Clear articulation of learner expectations for each lesson through the use of introductory Guiding Questions, bulleted Key Concepts, and Lesson Summaries
- An attractive learning environment with clear and easy to follow progression of concepts
- Accurate and innovative visualizations and simulations that engage students and illustrate and enhance basic concepts
- In-depth discovery exercises that foster observation, measurement, mathematical and analytical thinking skills
- Pre- and post-assessment activities to test student knowledge and learning and reinforce basic concepts
- Incorporates learner strategies from current educational research such as anticipation guides, multiple intelligences and graphic organizers
- Numerous links and extensions for a rich learning environment that provide connections to mathematics, literacy, history, travel, and STSE (Science, Technology, Society and the Environment)
- Teachable Moments feature keeps content fresh and relevant
- 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™ iPad™ Android™ Windows™ and Mac™ Compliant



Physical Geography Lesson (S80711)

- For AP and college level instruction
- 50 Lesson Plans
- Cover Earth's Energy Balance, The Atmosphere, Weather and Climate Systems, Tectonic Processes and Landforms, Volcanism and Landforms, Weathering and Mass Movements
- Groundwater Landscapes, Fluvial, Eolian, Glacial and Coastal Processes, Biomes, Plant Geography and Soils

Meteorology Lesson (S80710)

- For grades 5-12
- 35 Lesson Plans
- Covers Atmosphere, Weather, Climate and Climate Change, Atmospheric Circulation, and Human Impact on Climate

Geology Lesson (S80712)

- For grades 5-12
- 26 Lesson Plans
- Enables students to envision Earth as a whole system
- Shows tectonic plate boundaries, mountain ranges, volcanoes, earthquakes, mineral resources and biomes.
- Students can dive into the Earth's core; slice open a volcano or watch rocks transform
- Witness the changing shapes of Earth's major landmasses throughout history
- Virtual model of Earth that can be measured, manipulated and visualized for a deeper understanding of concepts

Cat. No.	Description	Price
S80711	Layered Earth Physical Geography	500.00/Ea
S80710	Layered Earth Meteorology	500.00/Ea
S80712	Layered Earth Geology/Earth Science	500.00/Ea

Celestron™ StarSense Explorer™ Smartphone App-Enabled Telescopes



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 80mm 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™ 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.

Includes:

- 80mm refractor optical tube
- StarSense dock for smartphone
- Low powered (25mm) and high powered (10mm) 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

⚠️ ALERTS:

Warning: Contains Chemicals Listed as Cancer and Reproductive Harm in the State of California

Cat. No.	Magnification	Optical Design	Model	Price
S81338**	36X/90X	Refractor	LT 80AZ	189.00/Ea
S81339**	36X/90X	Newtonian Reflector	LT 114AZ	189.00/Ea
S81341**	26X/65X	Newtonian Reflector	DX 130AZ	406.00/Ea
S81340**	26X/68X	Refractor	DX 102AZ	406.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

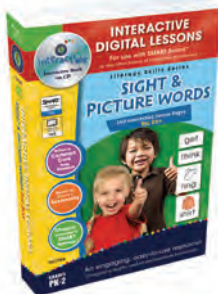
*** California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Sight & Picture Words Big Box - Digital Lesson Plan



For grades Pre-K through 2

- Includes 2 CDs, 1 User Guide, and 1 Registration Card
- Increase Sight & Picture Word recognition, vocabulary, and comprehension with our engaging and highly interactive 160 screen-page digital lesson plan
- Combining the 2 digital lessons in this series, students will identify 178 Dolch Sight Words and 120 common nouns using real life pictures as an aid
- As students begin to read and build their Sight and Picture Word knowledge, they will build a bank of known vocabulary words that will aid them in beginning to read and spell
- Each ready-made screen contains working with words interactive activities, test prep, memory match game, crossword, and word search
- Test your student's comprehension of the lesson with a Comprehension Quiz
- Aligned to State Standards and written to Bloom's Taxonomy



Cat. No.	Description	Price
S81323	Sight and Picture Words Big Box Digital Lesson Plan	55.00/Ea

Word Families Lesson Plans



Increase vocabulary, sight word recognition and comprehension for beginning readers

- Encourage reading skills by highlighting the high frequency, essential words
- **Short Vowels:** Add onsets like 'p' and 'st' to rhymes like 'an' and 'op' to form words like 'pan' and 'stop'. Find the best onset, like 'c', to finish the rhyme, like 'at', to match the word 'cat' with its real-life picture
- **Long Vowels:** Make a word by adding an onset, like 'sn', to the rhymes, like 'ail'. Finish a sentence by matching words, like 'sweep' and 'keep', to the boxes that show tall and small letters
- Aligned to State Standards and written to Bloom's Taxonomy
- Reproducible writing tasks, rhyme & onset cards, crossword, word search, comprehension quiz and answer key are also included



Cat. No.	Description	Price
S81301	Long Vowels Lesson Plans	15.00/Ea
S81300	Short Vowels Lesson Plans	15.00/Ea

Reading Comprehension Lesson Plans



Designed to teach the reading skills that are basic to reading fluency, our resource emphasizes the primary building blocks of reading acquisition

- For grades 5-8
- A child's ability to read and comprehend the written word is a touchstone to success in school and in life
- Aligned to your State Standards and written to Bloom's Taxonomy
- Paired with hands-on graphic organizers and comprehension activities
- All of our content is aligned to State Standards and written to Bloom's Taxonomy



Cat. No.	Description	Price
S81304	Reading Comprehension Lesson Plans	15.00/Ea

How to Write Books



For grades 5-8

- **Paragraphs:** Learning to express one's thoughts in well-written sentences and paragraphs is an essential skill for all students. Designed to make the writing process logical and easy to learn, our resource breaks down the process of writing a paragraph into its fundamental elements.
- **Book Reports:** Blend comprehension and creativity skills through book reports with clear and concise instruction. Our resource makes book reports fun again while providing instruction on the correct form and mechanics of all book reports.
- **Essays:** Take the fear out of writing essays and empower students by giving them the tools to comprehensively express their point of view. Our resource breaks down the writing process while exploring the four different kinds of essays.
- Aligned to State Standards and written to Bloom's Taxonomy
- Reproducible writing tasks, crossword, word search, comprehension quiz and answer key are also included



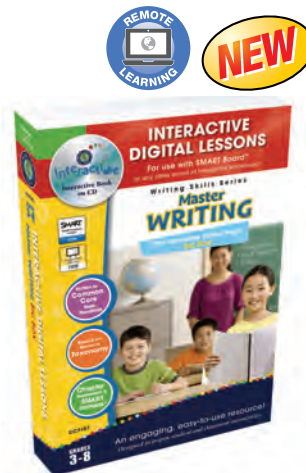
Cat. No.	Description	Price
S81296	How to Write an Essay	15.00/Ea
S81295	How to Write a Book Report	15.00/Ea
S81294	How to Write a Paragraph	15.00/Ea

Master Writing Big Box Digital Lesson Plan

For grades 5-8

- Includes 3 CDs, 1 User Guide, and 1 Registration Card
- Become a Master Writer with our engaging and highly interactive 240 screen-page digital lesson plan
- Combining the 3 digital lessons in this series, students will learn the steps in the writing process and how they help to write a paragraph, book report and essay
- Our digital lesson plan offers clear and concise instruction in the drafting and revision phases of writing
- We take the fear out of writing essays while giving students the tools to comprehensively express their point of view

- Create an opportunity for your students to get more involved in the lesson
- Each ready-made screen contains reading passages, before and after you read interactive activities, test prep, memory match game, crossword, word search, and even supporting video & audio
- All of our content is aligned to State Standards and are written to Bloom's Taxonomy



Cat. No.	Description	Price
S81325	Master Writing Big Box Digital Lesson Plan	80.00/Ea

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

Remote Learning

Life Science

Butterfly Garden™ 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.	Description	Price
S81719	Butterfly Garden Homeschool Edition	27.50/Ea



Launch Your School's Biotech Program

Find the curriculum, products, and support you need for every step of your journey.

Visit fishersci.com/biotechresources to learn more.



Production Of Biodiesel Small Group Learning

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.



⚠️ ALERTS:
WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects and reproductive harm. For more information go to www.P65Warnings.ca.gov.

DISCLAIMERS:

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Cat. No.	Description	Price
S40756	Biodiesel Small Group Learning Exercise	32.50/Ea

- Included is an optional small-scale exercise where the students will use a washing procedure for the crude biodiesel
- 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
- Size: 10 x 10 x 10 in. (L x W x H)

Owl Pellet Kit

Owl Pellet Kit for small learning groups teaches students the concepts of food webs and food chains while identifying the small animals that are prey for the owls.



⚠️ ALERTS:
WARNING: This product can expose you to chemicals including Lead and Lead Compounds, which are known to the State of California to cause cancer and reproductive harm.

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.	Description	Price
S29558	Owl Pellet Kit	36.25/Ea

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.



DISCLAIMERS:

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- 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

Cat. No.	Description	Price
S40735	Small Group Learning: Genetics Of Blood Types	21.00/Ea

MyLab™ Custom Kits

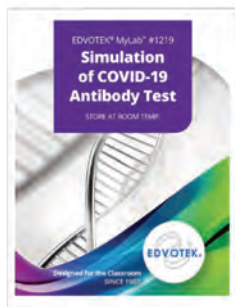
Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With the MyLab™ Custom Kits, you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

Simulation of COVID-19 Antibody Test Kit



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

- Learn about antibody-based detection techniques
- 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



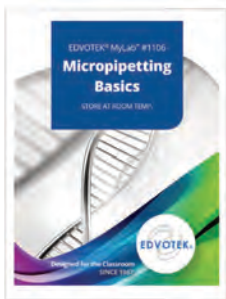
Cat. No.	Description	Price
S06462	Simulation of COVID-19 Antibody Test Kit	35.00/Ea

Micropipetting Basics Kit



Kit comes with instructions and materials for 2-3 runs of each experiment.

- For virtual or distance learning
- Learn the critical skill of micropipetting
- Hands-on pipetting practice
- Understand the importance of micropipetting in science
- Includes instructions, fixed volume micropipette, tips, dyes, and pipetting sheet



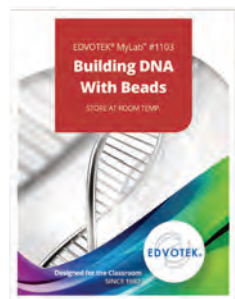
Cat. No.	Description	Price
S06463	Micropipetting Basics Kit	35.00/Ea

Building DNA With Beads Kit



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.	Description	Price
S06465	Building DNA With Beads Kit	35.00/Ea

Spooling DNA on a Stick Kit



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

- 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, DNA stain
- Alcohol included upon request



Cat. No.	Description	Price
S06466	Spooling DNA on a Stick Kit	35.00/Ea

Extracting Fruit and Vegetable DNA Kit



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
- Alcohol included upon request



Cat. No.	Description	Price
S06467	Extracting Fruit and Vegetable DNA Kit	35.00/Ea

Crime Scene DNA Fingerprinting Kit



Each kit comes with instructions and materials for 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
- Analyze crime scene and suspect samples to determine 'whodunnit'
- Includes instructions, simulated DNA samples, chromatography paper, buffer, pipettes



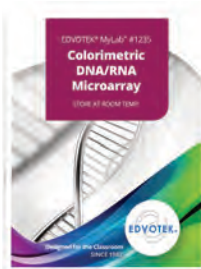
Cat. No.	Description	Price
S06470	Crime Scene DNA Fingerprinting Kit	35.00/Ea

Colorimetric DNA/RNA Microarray Kit



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.	Description	Price
S06471	Colorimetric DNA/RNA Microarray Kit	35.00/Ea

How Clean is Our Home Environment? Kit



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

- Learn about bacteria and where they are in your home
- Experiment with household cleaners to see which are most effective at killing bacteria
- Understand the relationship between bacteria and cleaning
- Includes petri dishes, agar, filter paper, and transfer pipettes



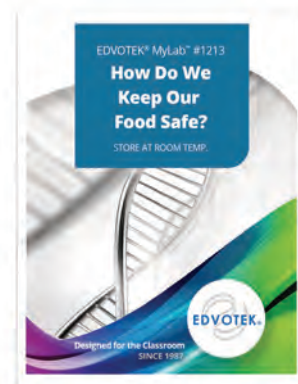
Cat. No.	Description	Price
S06469	How Clean Is Our Home Environment? Kit	35.00/Ea

How Do We Keep Our Food Safe? Kit



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

Bacteria grows and multiplies rapidly unless kept in check by good sanitation, 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 variables
- Includes indicator dye, pH paper, acetic acid, sodium bicarbonate, tubes, pipettes

Cat. No.	Description	Price
S06472	How Do We Keep Our Food Safe? Kit	35.00/Ea

Please see Delta dissection kits located in the Life Sciences catalog.

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 from 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 material for two groups



Cat. No.	Description	Price
S08200	Distance Learning: Forensic Chemistry - Drug Detection	22.75/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

Objectives

- 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



NEW

Cat. No.	Description	Price
S08199	Distance Learning: Forensic Chemistry of Blood Typing	20.75/Ea

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

Includes

- 10 mL 0.01M HCl
- 10 mL 0.01M 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 plates
- Extra litmus paper included if students want to test more items
- Instruction manual and enough materials for two groups



NEW

Cat. No.	Description	Price
S08191	Distance Learning: Acids and Bases	16.50/Ea

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 create foam

Includes

- 50 mL hydrogen peroxide (3%)
- 6 mL dish soap
- 2 g yeast
- 2 plastic cups, 5 oz.
- 2 stir sticks
- 1 clear bottle, 8 oz.
- Instruction manual and enough materials to perform the demonstration twice




NEW

Cat. No.	Description	Price
S08192	Distance Learning: Elephant Toothpaste	9.55/Ea



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Distance Learning: Paper Chromatography

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

Objectives

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



Cat. No.	Description	Price
S08193	Distance Learning: Paper Chromatography	15.25/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

Includes

- 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. 3 (phenolphthalein)
- 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.	Description	Price
S08194	Distance Learning: Acids, Bases and the pH Scale	26.50/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
- 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
- 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
- 2 nails
- 6 plastic cups, 5 oz.
- 1 plastic scoop
- Instruction manual and enough materials for two groups of students



Cat. No.	Description	Price
S08195	Distance Learning: Periodic Table- Nonmetals, Metals, and Metalloids	20.00/Ea

Distance Learning: DNA Extraction



Discusses the history of DNA and its structure, as well as genetic inheritance; isolate DNA material from plants

Objectives

- Learn about DNA structure, history, and discovery
- 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 material for two groups

Notes:

- Plant material not included

Cat. No.	Description	Price
S08196	Distance Learning: DNA Extraction	7.25/Ea

Distance Learning: Kidneys And Blood Filtration



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

Objectives

- Understand the role of the kidney in blood filtration and waste removal
- 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 material that may have been removed by artificial kidney



Includes

- 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 material for two groups

Cat. No.	Description	Price
S08197	Distance Learning: Kidneys And Blood Filtration	13.50/Ea

Distance Learning: Forensic Chemistry of Unknown Substances



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

Objectives

- 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.	Description	Price
S08198	Distance Learning: Forensic Chemistry of Unknown Substances	32.00/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



Includes

- 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.	Description	Price
S08201	Distance Learning: Cellular Respiration- What Sugar Does Yeast Like Best	17.25/Ea

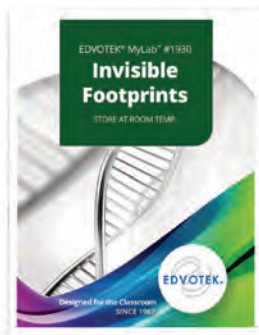
MyLab™ Custom Kit— Invisible Footprints



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

What would happen if each person was in charge of their own personal atmosphere? In this colorful experiment, students actually are! Explore the global carbon cycle and climate change in a simple, positive, and intimate way.

- 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 CO₂ powder, color change solution, mitigation solution, tubes, pipettes



Cat. No.	Description	Price
S06473	MyLab Invisible Footprints	35.00/Ea

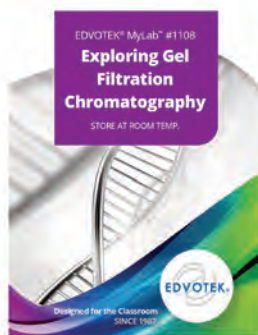
MyLab™ Custom Kit— Exploring Gel Filtration Chromatography



Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With the MyLab™ Custom Kits, 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.	Description	Price
S06468	MyLab Exploring Gel Filtration Chromatography	35.00/Ea

Eisco™ Student Basic Organic Chemistry Molecular Model Sets



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

54-Piece Set (S96538)

- 14 White hydrogen (1 hole)
- Six black carbon (4 holes)
- Two blue nitrogen (4 holes)
- Six red oxygen (2 holes)
- Two green halogen (1 hole)
- 28mm Gray links (20)
- 43mm Gray links (4)

114-Piece Set (S96539)

- 12 Black carbon (4 holes)
- 20 White hydrogen (1 hole)
- Six red oxygen (2 holes)
- Four blue nitrogen (4 holes)
- Two yellow sulphur (6 holes; 1 hole)
- One purple phosphorus (4 holes)
- One gray metal (1 hole)
- 28mm Gray links (26)
- 43mm Gray links (12)
- 28mm White links (26)
- Assembly tool

Cat. No.	Description	Price
S96538	54 Pieces Molecular Model Set	37.00/Ea
S96539	114 Pieces Molecular Model Set	49.75/Ea

United Scientific™ Atomic Model Sets



Used to model different organic and inorganic compounds.

Standard Atomic Model Kit (S90329B)

- Periodic table
- 30 connecting lugs
- 75 balls

Deluxe Atomic Model Kit (S90329A)

- Periodic table
- 150 connecting lugs
- 370 colored balls
- Compartmented storage box



Cat. No.	Description	Price
S90329B	Standard Atomic Model Kit	40.25/Ea
S90329A	Deluxe Atomic Model Kit	113.00/Ea

Eisco™ Garage Physics Spiral of Theodorus Kit



Allows students to experiment with square roots and irrational numbers in physical form.

- Includes 18 wooden triangles to build Spiral of Theodorus, labels, pen, instruction guide
- Hands-on activities aid in conceptualization of abstract mathematical ideas
- Elementary school children use triangles to explore Pythagorean theorem and square roots
- Middle school students use triangles to test equivalencies with square roots and explore abstract concepts like sequence of geometric shapes based on Fibonacci numbers
- High school students use kit to explore proof of irrationality for non-square integer roots



Cat. No.	Description	Price
S24328	Spiral of Theodorus Kit	24.50/Ea

Eisco™ Garage Physics Large Trebuchet DIY Kit

Kit engages the young learner to discover new ideas about the physical world through assembly and play. Eisco™ Garage Physics Large Trebuchet DIY Kit kits contain 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 which will throw the included ping pong ball more than 30 feet and heavier objects 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.

Cat. No.	Description	Price
S43526	Large Trebuchet DIY Kit	88.00/Ea

Eisco™ Garage Physics Catapult Kit



Allows students to explore force, acceleration, Hooke law, and parabolic trajectories by building and testing a fully-functional catapult.

- Designed for elementary through high school children
- 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



Cat. No.	Description	Price
S24329	Physics Catapult Kit	43.00/Ea

Inertia Apparatus



Known as ball and card mass force demonstrator.

- 0.75 in. (1.9cm) ball rests on top of a small cardboard square which rests on an aluminum post
- Spring is positioned alongside the post
- When the spring is released, it shoots the square 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 × 3 × 4 in. (7.6 × 7.6 × 10.2cm); weight: 0.22 lb. (0.1kg)



INCLUDES: Instruction sheet

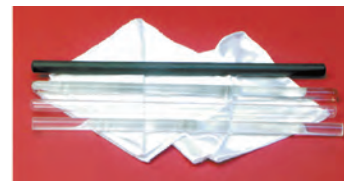
Cat. No.	Description	Price
S41011A	Inertia Apparatus	17.75/Ea

United Scientific™ Rubber Friction Rod and Wool Pad



Study electrostatics.

- All the essential materials for student exploration in electrostatics
- Topics include static electricity, polarity and friction studies
- Use a variety of friction rods, friction pads and pith balls
- The combination of materials will determine the charge distribution after contact is made



Cat. No.	Description	Price
S43230	Rubber Friction Rod	8.85/Ea
S43236	Wool Pad	3.65/Ea

Wave Demonstration Kit



A welcome addition to any classroom. This Kit will help students visualize how waves propagation works. The Wave Demonstration Kit comes with one long, narrow steel helical spring and, one larger helical spring that are matched to give nearly equal amplitudes of reflected and transmitted pulses and waves. A string and instructions are also included in the kit.



- Kit includes 2 springs and a string
- Easily visualize wave propagation

⚠️ ALERTS:
Product intended for ages 13 and up. May Contain Latex!

Cat. No.	Description	Price
S13646	Wave Demonstration Kit	42.00/Ea

Eisco™ Build a DC Motor Kit



Classic activity used to teach crucial scientific and physics concepts.



This kit contains everything needed to build a working DC motor and learn its parts from the inside out. Classic activity used for many years to teach crucial scientific and physics concepts. Wind your own armature and field coil; build the commutator with two snap together pieces.

Kit includes:

- Copper wire coils (2)
- Plastic base
- Field poles
- Armature core
- Brushes and fasteners

Cat. No.	Description	Price
S13013	Build A DC Motor Kit	11.00/Ea

United Scientific™ 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



ORDERING INFORMATION:

Dimensions: 7 x 4 x 2 in. (17.8 x 10.2 x 5.1cm); shipping weight: 4.6 oz. (130.4g). D-cell battery not included.

Cat. No.	Description	Price
S05820	Create-a-Circuit Kit	24.00/Ea

United Scientific™ 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



ORDERING INFORMATION:

Dimensions: 5.75 x 2.75 x 3 in. (14.5 x 6.9 x 8.8cm). Weights: Product: 4.5 oz (129g) Packed item: 6.5 oz (221g). Product with battery: 5.5 oz (157g)

Cat. No.	Description	Price
S02601	Solar Powered Car	37.00/Ea

Eisco™ Garage Physics Torque Demonstration Kit



Learning concept of torque by moving a mass set down a rod while trying to balance the main rod



- DIY assembly and activity
- Kit contains: Storage Box in image, 1000g mass set, custom washer, 2 dowels, 2 bolts, 2 nuts, steel ball and instructions

Cat. No.	Description	Price
S24324	Torque Demonstration Kit	40.25/Ea

Celestron™ Kids Telescope Kit



Celestron 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
- Coated glass optics provide great views of the moon and planets
- 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
- Age graded 8+

⚠️ ALERTS:
Warning: Contains Chemicals Listed as Cancer and Reproductive Harm in the State of California

Cat. No.	Description	Price
S81333***	Kids Telescope Kit	46.50/Ea

Stinger Series 8X, 22mm Compact Binoculars



Stinger series binoculars are lightweight and compact for travel and backpacking

- Fully multi-coated lenses for bright, sharp and crystal clear images
- For travel, camping, surveillance, nature, bird watching, concerts, sporting events, hunting, and safari's



Warranty:

- Backed by a no-fault, no hassle warranty
- In case of damage regardless of cause, the item will be repaired or replaced at no charge
- Item will be repaired or replaced if has manufacturing defects in materials or workmanship

Includes:

- Soft pouch
- Wrist strap
- Microfiber lens cloth

Cat. No.	Description	Price
S81730	Stinger Series 8X, 22mm Compact Binoculars	48.50/Ea

MonoZoom Zoom Monocular



MonoZoom is compact, portable and lightweight monocular, for traveling and exploration

- 7 to 21X, 21mm
- 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 concerts



- Backed by a no fault, no hassle warranty

Includes:

- Soft pouch
- Neck strap
- Lens cover

Cat. No.	Description	Price
S81729	MonoZoom 7 to 21X, 21mm Zoom Monocular	47.50/Ea

Lume Series Aspheric COB LED Lighted Handheld Magnifier with 7X Spot Lens and Two Brightness Settings



Magnifying glasses contain three ultra bright COB LED lights spread proportionally around rim of lens for wide and even lighting

- 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:
 - 2.5x Power (AS-90)
 - Stronger magnification but smaller lens diameter (3.5 in.)
- Backed by limited lifetime warranty



- 2x power (AS-95)
- Provides a wider viewing area with 4 in. lens diameter

Includes:

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

Cat. No.	Diameter Lens	Magnification	Price
S81724	3.5 in.	2.5X	72.00/Ea
S81723	4.5 in.	2X	21.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

VersaLoupe 10X Focusing Stand Loupe Magnifier



VersaLoupe 10X Focusing Stand Loupe Magnifier is a power 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.
- Ideal for viewing stamps, coins, photography and more.
- Lifetime limited warranty



Cat. No.	Description	Price
S81160	VersaLoupe 10X Focusing Stand Loupe Magnifier	6.05/Ea

LumiLoupe Ultra 5X LED Magnifier



LumiLoupe Ultra 5X LED Magnifier is 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.
- 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)
- Limited lifetime warranty



Cat. No.	Description	Price
S81161	LumiLoupe Ultra 5X LED Magnifier	21.00/Ea

LED VersaLoupe 10X LED Lighted Focusing Stand Loupe Magnifier



LED VersaLoupe 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:

- Backed by lifetime limited warranty
- Will repair or replace magnifier if has manufacturing defects in materials or workmanship

Cat. No.	Description	Price
S81731	LED VersaLoupe 10x LED Lighted Focusing Stand Loupe Magnifier	17.00/Ea

PRO Series 1.8x (+3.25 Diopter) Magnifying Hobby Glasses with Protective Case



PRO series magnifying hobby glasses for a hands-free way to support low vision needs

- Coated lenses to increase light transmission and prevent scratching
- 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
- Backed by limited lifetime warranty



Includes:

- Protective hard shell case
- Microfiber cleaning cloth

Cat. No.	Description	Price
S81728	PRO Series 1.8x (+3.25 Diopter) Magnifying Hobby Glasses with Protective Case	40.00/Ea

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

DeskBrite 300 includes 5x spot lens and USB-C wall adapter, adjustable flexible neck allows users to position lens

- Contains an aspheric design
- Light rays pass through lens and meet at a single point allowing 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

- Backed by limited lifetime warranty

Includes:

- Four ultra bright COB LED lights with two brightness settings



Cat. No.	Description	Price
S81722	DeskBrite 300 2x COB LED Lighted 3.5 in. Desktop Magnifier	45.00/Ea

MagniLoupe Eye Loupe Magnifier Set with Smartphone Digiscoping Clip

MagniLoupe Eye Loupe Magnifier Set includes 4 Magnification Options: 4.5X, 6.5X, 8X and 13X.

- Contains 4 ergonomically designed eye loupe magnifiers that are engineered to rest comfortably in the eye socket: 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 Otter Box 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
- Limited Lifetime Warranty



Cat. No.	Description	Price
S81149	MagniLoupe Set with Smartphone Digiscoping Clip (4.5X/6.5X/8X/13X)	20.25/Ea

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

Warranty:

- Backed by limited lifetime warranty
- will repair or replace pocket microscope if it is found to have manufacturing defects in materials or workmanship
- Please contact for additional warranty details



Cat. No.	Description	Price
S81721	PocketMicro 20 to 60x LED Lighted Pocket Microscope with Aspheric Lens System	17.00/Ea

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



MicroFlip Pocket Microscope 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.
- Use the smartphone digiscoping clip to take pictures and record video using the built-in camera application on a smartphone
- Digiscoping clip will work with most smartphone models in the marketplace including iPhone, Samsung, HTC, LG and more.
- Powered by 1 AA battery (not included)
- Thicker cases like Otterbox style cases may need to be removed before attaching the digiscoping clip.
- Excellent educational field microscope for multiple hobbies, tasks, learning and exploration.
- For kids, students and even professional usage.
- Lifetime limited warranty

Cat. No.	Description	Price
S81143	MicroFlip Pocket Microscope with Flip-Down Slide Base and Smartphone Digiscoping Clip	22.50/Ea



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REMOTE LEARNING ENGAGE YOUR STUDENTS

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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
- Weight: 5.1 oz.; L x W x H: 7 x 5 x 2 in.

ORDERING INFORMATION:

Dimensions: 7 x 5 x 2 in. (17.7 x 12.7 x 5cm); Shipping weight: 5.10 oz. (0.14kg)

Cat. No.	Description	Price
S05815	Morse Code Experiment Kit	14.50/Ea

Eisco™ Garage Physics Standing (Catenary) Arch Kit



Helps students learn engineering concepts of force balancing and load transfer.

- Helps students understand the concept of vaulted arches and bridge types
- Includes seven pre-cut wooden blocks
- Includes hook for attachment of hanger and masses for demonstration of live load
- For students aged 7 to 13
- Constructed arch stands 16.5 in. tall and 13 in. wide
- With instruction manual



Cat. No.	Description	Price
S24323	Catenary Arch Kit	29.50/Ea

Eisco™ Garage Physics Leonardo Da Vinci Bridge Kit



Garage Physics Leonardo Da Vinci Bridge Kit demonstrates how gravitational forces are transformed into lateral forces



- Completed bridge spans 5 feet and can support 60 lbs.
 - Helps students understand engineering principles
 - No tools required for assembly
- Includes**
- 5 x 16 in. dowels
 - 10 x 24 in. beams
 - 34 rubber bands
 - Complete assembly and pedagogical guide

WARRANTY: 1 year limited manufacturer warranty

Cat. No.	Description	Price
S88363	Garage Physics Leonardo Da Vinci Bridge Kit	50.25/Ea

Eisco™ Science Fair Kits—Eco-Structure Building Kit



Allows budding architects and engineers to creatively design safe, affordable, eco-friendly housing. Designed for class-room or school-wide STEM challenge competitions.

- Ages 8-18
- Design and build affordable, energy efficient, clean, safe and structurally sound building models.
- Structural elements include corrugated cardboard and chip board, foam pads for insulation, Cello sheets for window material, and a full roll of masking tape.
- Set also includes thermometer to test structure insulation and summer/winter solar resilience, and a photocell with leads to measure the amount of natural light.
- Materials are provided to allow student teams to build a proto-type as well as a final version.
- The final version can be put through 2 solar radiation tests (summer inclination and winter inclination), 1 ambient light test, and 2 structural integrity tests (wind and snow).
- Guide includes Bill of Materials Worksheet, Judging Rubric and Test Result Calculation Sheet



Cat. No.	Description	Price
S30766	Eco-Structure Building Kit	78.00/Ea

Eisco™ Garage Physics Murlin Trebuchet Kit



Garage Physics Murlin Trebuchet Kit explores how the use of a simple machine (pulley) efficiently redirects gravitational potential energy to throw objects farther than a traditional trebuchet

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.

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



WARRANTY: 1 year limited manufacturer warranty

Cat. No.	Description	Price
S88359	Garage Physics Murlin Trebuchet Kit	106.00/Ea

Eisco™ Science Fair Kits—Light-Sensitive Bristlebot Kit



Explore a simple feedback circuit analog of bacteria. The Light Sensitive Bristlebot Kit includes components for building a simple light-based bacteria model based on the bristlebot design.

- For ages 10 - 18
- Explore a simple feedback circuit analog of bacteria.
- The bot moves randomly when there isn't enough light. When it wanders into a region with enough light it slows down and stops.
- Team up multiple bots to explore group behavior
- Exploration of the kit takes about an hour, including assembly
- Scissors required, not included



Kit includes:

- (2) toothbrush heads
- (1) 25 pin micro breadboard
- (1) 2N3904 NPN bipolar transistor
- (1) CR2032 3V Lithium coin cell battery
- (1) Micro 3V DC vibration motor
- (1) 5539 photoresistor
- Mounting tape
- Single-use superglue
- (4) Googly eyes
- (2) Bare metal paperclips
- Detailed, illustrative instructions, and pedagogical materials

Cat. No.	Description	Price
S30767	Light-Sensitive Bristlebot Kit	25.75/Ea



Eisco™ Garage Physics Ballista Catapult Kit

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

- Shoots ping pong balls over 30 ft, depending on launch angle and string tension
- Included stand allows exploration of launch angles from 15° to 45° in increments of 10°
- Press fit assembly—no tools required. Instructional guide included.
- Contains ballista and ping pong ball
- Birch Plywood is formaldehyde-free using soy-based technology, LEED compliant, CARB compliant
- Launches are highly repeatable giving consistent experimental results

WARRANTY:
1 year limited manufacturer warranty



Cat. No.	Description	Price
S88360	Garage Physics Ballista Catapult Kit	117.00/Ea

Small Group Learning: Electrochemical Series

Students will study electrochemical series.

- The electrochemical series is built up by arranging various redox equilibria in order of their standard electrode potentials (redox potentials).
- When a strip of metal (an electrode) is placed in water the metal has a tendency to go into solution as ions with a simultaneous build up of electrons on the metal strip.
- This process produces an electrical potential difference between the metal and solution which is called an electrode potential (E°).
- Kit contains enough material for 5 groups
- Teacher's Manual and Student Study Guide copymasters are included
- For 5 groups



Cat. No.	Description	Price
S40738	Small Group Learning: Electrochemical Series	33.50/Ea

Small Group Learning: Water Treatment And Filtration

Students will develop a knowledge of the processes performed at a water treatment plant and understand the reasons for each process by performing, on a small-scale, several of the procedures that occur in a water treatment plant on simulated polluted water.

- Students will examine the changes in the water after each treatment step is performed, observe physical characteristics of water, such as clarity, color, odor, and note how the characteristics are affected from the beginning of the treatment process until the end
- 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; HS-PS1-3
- Cross Cutting Concepts: Patterns
- Engineering Practices: Analyzing and Interpreting Data; Planning and Carrying Out Investigations



⚠️ ALERTS:
WARNING: This product can expose you to chemicals including Respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Cat. No.	Description	Price
S40757*	Small Group Learning: Water Treatment And Filtration	37.50/Ea

Eisco™ Science Fair Kits—Egg Drop Kit

With the Egg Drop Kit students design, document, and test their unique enclosures for an egg that will go through an industry standard drop test (egg not included).

- Use the supplied materials to create a safe enclosure for an egg (egg not included)
- Explore physics concepts including drag, gravity, and impact
- Ages 6-15
- Egg required, not included

Kit includes:

- (1) roll of masking tape
- (1) 6 x 4 x 4 cardboard box
- (2) foam sheets
- (2) sheets of bubble wrap
- (1) 5 x 7 corrugated pad
- (2) plastic bags
- Instruction guide



Cat. No.	Description	Price
S30769	Egg Drop Kit	20.75/Ea

Eisco™ 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
- Easy to assemble
- Includes educational guide
- Kit Includes:
 - 20-foot long (5/8 in. diameter) FDA approved vinyl tube
 - 9 removable wire hooks
 - Twist ties and clipper
- 4 steel ball bearings (3/8 in. diameter)
- 3 rubbing alcohol pads
- 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

Required but not included:

- Scratch paper (US Letter or A4 size is sufficient)
- Pair of scissors
- Tape
- 2 tin cans per class (any size)

WARRANTY:

1 year limited manufacturer warranty

Cat. No.	Description	Price
S88361	Garage Physics Ball Bearing Roller Coaster Kit	124.00/Ea



Conductivity Kit

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

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

- Contents: 1 x Battery Holder, 1 x Piezoelectric Buzzer, 25 x LEDs (5 each or Red, Green, White, Yellow, Blue), 1 x 3.5 oz. Container of Insulating Dough, 3 x 3.5 oz. Containers of Conductive Dough (in Red, Green, and Blue)

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 x Deluxe Battery Holder, 1 x Piezoelectric Buzzer, 1 x Motor with Fan, 1 x Mechanical Buzzer, 1 x Switch, 40 x LEDs (5 each or Red, Green, White, Yellow, Blue, Purple, Orange, and Color Changing), 1 x Set of Dough Sculpting Tools, 1 x Rolling Pin, 1 x 7 oz. Container of White Insulating Dough, 7 x 7 oz. Containers of Conductive Dough (in Red, Blue, and Green, Yellow, Orange, Purple, and Black)

Cat. No.	Description	Price
S29667	Standard Kit	35.00/Ea
S29668	Deluxe Kit	75.00/Ea



United Scientific™ Acrylic Demonstration Lenses Sets

Set of six lenses of a variety of types.

- Each single-diameter set includes a double convex, plano-convex, concavo-convex, double concave, plano-concave and convexo-concave lens
- Three diameters available

- Includes an activity guide
- Pack of 6

ORDERING INFORMATION:

Comes in a reusable cardboard storage box.

Cat. No.	Description	Price
S42920	Acrylic Demo Lens Set, 38mm (1.5 in.) diameter	16.50/PK
S42921	Acrylic Demo Lens Set, 50mm (2 in.) diameter	22.00/PK
S42923	Acrylic Demo Lens Set, 75mm (3 in.) diameter	29.00/PK



Celestron™ Telescope and Binocular Science Kit



Celestron Telescope and Binocular Science Kit is perfect for budding scientists



- Star gaze with the large 50mm telescope that includes a full height adjustable tripod, a finderscope for easily lining up your sight, and two powerful eyepieces
- View the craters of the moon, explore your favorite constellations and even witness the rings of Saturn
- The illuminated microscope magnifies up to 900x with additional powers of 150x and 450x and includes blank and prepared slides, cover slips, blank labels, spatula, dissecting probe, eye dropper, tweezers, spare light bulbs and specimen vials
- The powerful binoculars are great for exploring the amazing landscapes, animals, and astonishing occurrences that are happening all around
- Featuring 4x magnification and a 30mm coated glass objective lenses, 150x/450x/900x magnification (2 AA batteries - Not Included)
- Microscope accessories include 3 blank microscope slides, 3 cover slips, 3 blank labels, spatula, dissecting probe, plastic scalpel, eyedropper, tweezers, 3 specimen vials, spare light bulb
- Telescope accessories include adjustable tripod, 2 eyepieces (5mm, 10mm), finderscope, diagonal
- All 3 devices built strong with professional craftsmanship for exceptional viewing experience
- This complete optical science kit combines a 50mm refractor telescope with a complete microscope kit and 4x binoculars
- Suitable for ages 10 years and above

⚠️ ALERTS:
Warning: Contains Chemicals Listed as Cancer and Reproductive Harm in the State of California

Cat. No.	Description	Price
S81330***	Telescope and Binocular Science Kit	59.00/Ea

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 *** California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Celestron™ Kids Binoculars



Celestron™ Kids Binoculars with small form factor 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
- Age rated 6+

⚠️ ALERTS:
Warning: Contains Chemicals Listed as Cancer and Reproductive Harm in the State of California

Cat. No.	Description	Price
S81334***	Kids Binoculars	8.90/Ea

Military Field Compass

Accurate and Shock resistant compass preferred by military forces.



- Works with USGS topographical maps
- Graduated in 6400 mil increments
- Lens with dial graduated in 0 to 360 degrees in 5 degree increments
- Calibrated to North America
- Includes instructions, sighting wire, rotating bezel
- Ages 13+

Cat. No.	Description	Price
S28113	Military Field Compass	8.10/Ea

United Scientific™ 5X Single Lens

Folding magnifiers in plastic cases.

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



Cat. No.	Description	Price
S19008	5X Single Folding Lens	4.95/Ea

Orienteering Compass

For any map related works.

- Featuring 4 scales and 2 degree increments
- With black bezel, liquid-filled capsule
- With declination correction scale and luminous points
- 4x magnifier



⚠️ ALERTS:

Product intended for ages 13 and up.

Cat. No.	Description	Price
S28092	Orienteering Compass	4.95/Ea

Celestron™ National Park Foundation Telescopes



Celestron National Park Foundation

Telescopes are designed with travelers in mind, yet offer high quality optical power

TravelScope™ 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 76mm 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
- Weighing just 4.3 lb. it is the perfect companion for any outdoor adventure



⚠️ ALERTS:

Warning: Contains Chemicals Listed as Cancer and Reproductive Harm in the State of California

Cat. No.	Description	Price
S81328***	Travel Scope 60 Telescope	80.00/Ea
S81329***	FirstScope Telescope	64.50/Ea

Ballistics Car with Magnetic Release

Demonstration to help students understand Newton's first law of motion.

- Magnetic release launches ball
- Low friction wheels allow coasting
- Ages 13+



Cat. No.	Description	Price
S28117	Magnetic Ballistics Car	63.00/Ea

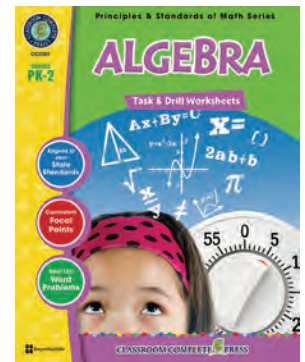
Math and Language

Task & Drill Sheets: Grades PK-2



Task & Drill Sheets: Grades PK-2, aligned to State Standards, meet the concepts addressed by NCTM

- Beginner learners build and practice their understanding of everyday math
- These resources introduce the mathematical concepts taken from real-life experiences
- Timed warm-up practice questions strengthen procedural proficiency skills
- Provides a leveled approach to learning, starting with Pre-K and increasing in difficulty to Gr. 2
- Aligned to State Standards, meeting the concepts addressed by the NCTM standards
- Reproducible task sheets, drill sheets, review and answer key are included



Cat. No.	Description	Price
S81305	Number & Operations	15.00/Ea
S81306	Algebra	15.00/Ea
S81307	Geometry	15.00/Ea
S81308	Measurement	15.00/Ea
S81309	Data Analysis & Probability	15.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Word Families: Lesson Plans

Word Families: Lesson Plans are aligned to State Standards and written to Bloom's Taxonomy



- Increase vocabulary, sight word recognition and comprehension for beginning readers
- Encourage reading skills by highlighting the high frequency, essential words
- **Short Vowels:** Add onsets like 'p' and 'st' to rhymes like 'an' and 'op' to form words like 'pan' and 'stop'. Find the best onset, like 'c', to finish the rhyme, like 'at', to match the word 'cat' with its real-life picture
- **Long Vowels:** Make a word by adding an onset, like 'sn', to the rhymes, like 'ail'. Finish a sentence by matching words, like 'sweep' and 'keep', to the boxes that show tall and small letters

- Aligned to State Standards and written to Bloom's Taxonomy
- Reproducible writing tasks, rhyme & onset cards, crossword, word search, comprehension quiz and answer key are also included

Cat. No.	Description	Price
S81301	Long Vowels	15.00/Ea
S81300	Short Vowels	15.00/Ea



High Frequency Words: Lesson Plans

High Frequency Words: Lesson Plans are aligned to State Standards and written to Bloom's Taxonomy



- Sight words are words that must become automatically recognized by the reader because they are often not pronounced or spelled in regular ways
- Write the sight word in the boxes that match the shape of the word, then finish the sentence by matching the sight words with their boxes
- Picture associations will aid young readers in developing anchor words to increase their oral and written language

- Unscramble the words that match the pictures, write the nouns in the boxes that match the shape of the word, then draw a picture of the word
- Match the food, clothing, or body part word to its picture
- Aligned to State Standards and written to Bloom's Taxonomy
- Reproducible writing tasks, picture word flash cards, crossword, word search, comprehension quiz and answer key are also included

Cat. No.	Description	Price
S81303	Picture Words	15.00/Ea
S81302	Sight Words	15.00/Ea



Earth & Space—STEAM Based Learning

Earth & Space - STEAM Based Learning ensures students are engaged and can fully understand difficult concepts



- Inspire students to gain a deep understanding of our planet earth and beyond with our Hands-On Earth & Space Science resource for Grades 1-5
- Combining Science, Technology, Engineering, Art, and Math, this resource aligns to the STEAM initiatives and Next Generation Science Standards

- Each concept is paired with reproducible hands-on experiments and comprehension activities to ensure students are engaged and fully understand the concepts
- Reading passages, graphic organizers, before you read and assessment activities are included.

Cat. No.	Description	Price
S81322	Earth & Space—STEAM Based Learning, Gr. 1-5	15.00/Ea



Life Science— STEAM Based Learning



Life Science - STEAM Based Learning ensures students are engaged and can fully understand difficult concepts

- Spark curiosity in this great big world of ours by discovering how everything works and lives together with our Hands-On Life Science resource for Grades 1-5
- Combining Science, Technology, Engineering, Art, and Math, this resource aligns to the STEAM initiatives and Next Generation Science Standards
- Each concept is paired with reproducible hands-on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts
- Reading passages, graphic organizers, before you read and assessment activities are included



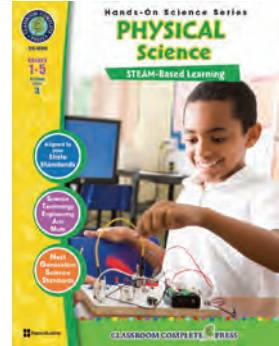
Cat. No.	Description	Price
S81321	Life Science—STEAM Based Learning, Gr. 1-5	15.00/Ea

Physical Science— STEAM Based Learning



Physical Science - STEAM Based Learning ensures students are engaged and can fully understand difficult concepts

- Get your students excited about energy and all things that move with our Hands-On Physical Science resource for Grades 1-5
- Combining Science, Technology, Engineering, Art, and Math, this resource aligns to the STEAM initiatives and Next Generation Science Standards
- Each concept is paired with reproducible hands-on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts
- Reading passages, graphic organizers, before you read and assessment activities are included



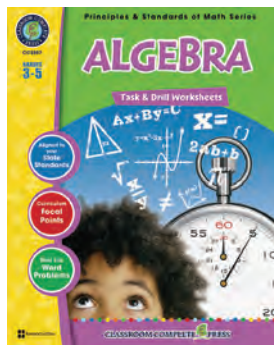
Cat. No.	Description	Price
S81320	Physical Science—STEAM Based Learning, Gr. 1-5	15.00/Ea

Task & Drill Sheets: Grades 3-5



Task & Drill Sheets: Grades 3-5, aligned to State Standards, meet the concepts addressed by NCTM

- **Number & Operations:** Extend knowledge of numbers by examining how fractions, decimals and percentages work
- **Algebra:** Go further with the study of Algebraic concepts by looking at expressions and equations
- **Geometry:** Increase students' bank of known shapes by exploring and identifying two- and three-dimensional objects
- **Measurement:** Start measuring lengths and weights while mastering conversions
- **Data Analysis & Probability:** Create graphs using gathered information and accurately read the data to make predictions
- Aligned to State Standards and meets concepts addressed by the NCTM standards
- Introduces students to mathematical concepts
- Provides timed warm-up practice questions



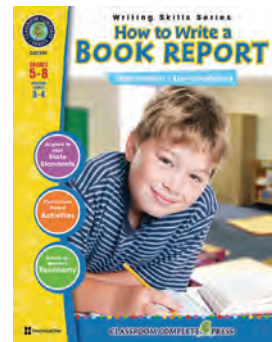
Cat. No.	Description	Price
S81310	Number & Operations	15.00/Ea
S81311	Algebra	15.00/Ea
S81312	Geometry	15.00/Ea
S81313	Measurement	15.00/Ea
S81314	Data Analysis & Probability	15.00/Ea

How to Write Books Gr. 5-8



How to Write Books Gr. 5-8 are aligned to State Standards and written to Bloom's Taxonomy

- **Paragraphs:** Learning to express one's thoughts in well-written sentences and paragraphs is an essential skill for all students. Designed to make the writing process logical and easy to learn, our resource breaks down the process of writing a paragraph into its fundamental elements.
- **Book Reports:** Blend comprehension and creativity skills through book reports with clear and concise instruction. Our resource makes book reports fun again while providing instruction on the correct form and mechanics of all book reports.
- **Essays:** Take the fear out of writing essays and empower students by giving them the tools to comprehensively express their point of view. Our resource breaks down the writing process while exploring the four different kinds of essays.
- Aligned to State Standards and written to Bloom's Taxonomy
- Reproducible writing tasks, crossword, word search, comprehension quiz and answer key are also included

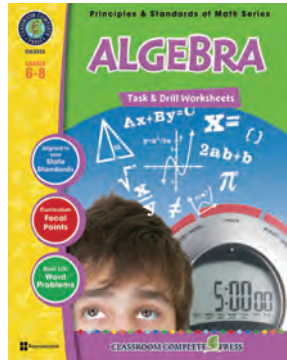


Cat. No.	Description	Price
S81296	Essay	15.00/Ea
S81295	Book Report	15.00/Ea
S81294	Paragraph	15.00/Ea

Task & Drill Sheets: Grades 6-8



Task & Drill Sheets: Grades 6-8 are aligned to State Standards and meet the concepts addressed by NCTM standards



- **Number & Operations:** Get the number and operations skills needed to be successful in the real world
- **Algebra:** Help students get excited about using algebraic skills to solve day-to-day problems
- **Geometry:** Students will become experts of all things shapes through identification and measurement
- **Measurement:** Learn to use measurements in everyday life by converting and calculating area, perimeter and surface area
- **Data Analysis & Probability:** Find out how analyzing data and understanding charts can be used in daily life
- Task & Drill sheets provide a leveled approach to learning, starting with Grade 6 and increasing in difficulty to Grade 8
- Timed warm-up practice questions strengthen procedural proficiency skills
- Aligned to State Standards
- Meet the concepts addressed by NCTM standards
- Reproducible task sheets, drill sheets, review and answer key are included

Cat. No.	Description	Price
S81315	Number & Operations	15.00/Ea
S81316	Algebra	15.00/Ea
S81317	Geometry	15.00/Ea
S81318	Measurement	15.00/Ea
S81319	Data Analysis & Probability	15.00/Ea

Master Reading Big Box – Digital Lesson Plan



Master Reading Big Box - Digital Lesson Plan includes 3 CDs, 1 User Guide, and 1 Registration Card



- Become a Master Reader with our engaging and highly interactive 240 screen-page digital lesson plan
- By combining the 3 digital lessons in this series, students will gain the ability communicate and understand the written word with reading comprehension, literary devices and critical thinking skills
- Covering a wide range of topics such Main Idea, Making Inferences, Characterization, Point of View, and Independent Thinking, students will begin a journey that will continue on into adulthood
- Graphic Organizers are paired with each topic, allowing students to interactively practice what they have learned
- Each ready-made screen contains reading passages, before and after you read interactive activities, test prep, comprehension quiz, memory match game, crossword, word search, Text to Speech, and supporting video & audio
- Test your student's comprehension of the lesson with a Comprehension Quiz
- All of our content is aligned to State Standards and are written to Bloom's Taxonomy

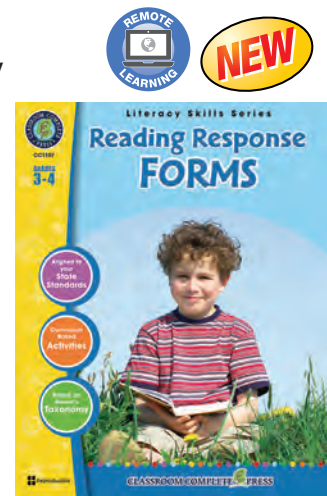
Cat. No.	Description	Price
S81324	Master Reading Big Box—Digital Lesson Plan, Gr. 5-8	80.00/Ea

Reading Response Forms

Reading Response Forms are aligned to State Standards and written to Bloom's Taxonomy

- Allows young readers to share their thoughts about the literature that they have heard or read themselves
- Students can draft a story summary, draw a map of the setting, or complete personal character comparisons to demonstrate what they remember from readings
- Provides middle school students with the tools to demonstrate their understanding and to share their thinking about the literature that they have read
- Find quotes from the characters and evaluate why each one was important or rewrite a part of the story from a different point of view
- All Reading Response Forms are aligned to State Standards and written to Bloom's Taxonomy
- Reproducible hands-on activities, crossword, word search, comprehension quiz, and answer key are also included

Cat. No.	Description	Price
S81297	Gr. 1-2	15.00/Ea
S81298	Gr. 3-4	15.00/Ea
S81299	Gr. 5-6	15.00/Ea



STEM / CTE

K'NEX™ Power & Play 50 Model Motorized Building Set

NEW

Spark building interest with a toy that provides fun-filled playtime, while honing 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 young one to experiment and craft every model they can imagine
- This building set includes a motor that brings your child's project to life
- See your child's creations come to life by attaching the battery-powered motor to them
- Recreating cars and vehicles is easy with the motor, which allows mobility of designs
- The portable storage box provides hassle-free carrying
- This set comes with easy-to-follow instructions that will teach your child 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 children's natural curiosity and creativity
- Building with K'NEX™ puts children on the path to a fundamental understanding of STEAM subjects



Cat. No.	Description	Price
S81363	Power & Play 50 Model Motorized Building Set	26.50/Ea

STEAM Primer

A revolution in smart construction fun! Keep young imaginations entertained for hours and immerse them into the STEAM arts of science, technology, engineering, art, and math!

NEW

- 111 pieces
- Suitable for Pre-K

Includes:

- Lux Squares (75)
- White Trignons (20)
- Trigon Wheels (5)
- Square Wheels (4)
- Lux Axels (5)
- 7 in. Rubber Bands (2)



Cat. No.	Description	Price
S81699	STEAM Primer	42.00/Ea

Mini Freestyle Set

NEW

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

- One-of-a-kind hinged pieces snap together to allow children 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 children



Cat. No.	Description	Price
S81704	Mini Freestyle Set	24.50/Ea

Freestyle Set

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

NEW

- 116 one-of-a-kind hinged pieces snap together to allow children 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 children
- Pre-K to Grade 12



Cat. No.	Description	Price
S81703	Lux Blox Freestyle Set	44.00/Ea



FISHER SCIENCE EDUCATION
MAKING SCIENCE MATTER

Visit us online at fisheredu.com to learn more about our programs, services and resources.

K'NEX™ STEM Explorations Building Sets

- Accommodate 1-2 students, working as a team
- Ideal solution for home-school families
- Easy-to-follow, step-by-step building instructions included
- 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
- 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	18.00/Ea
S81356	Levers and Pulleys Building Set	18.00/Ea
S81357	Vehicles Building Set	29.25/Ea

K'NEX™ Beginner 40 Model Building Set

Beginner Building Set with new parts that are designed specifically for 5 year old builders, allowing them to build on a flat surface before sandwiching the flat builds together into a 3D creation.

- Features all new easy-build parts that allow children ages 5 and up to have a frustration-free building experience
- The new parts include a barbell shaped rod that easily sandwiches between 2 connectors, and a flat panel piece that provides structural support
- 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 imagination
- Packaged in a sturdy suitcase-style box with a handle for easy clean-up and portable storage
- Building with K'NEX supports a child's developmental growth and puts them on a path towards a better understanding of STEM subjects
- As they fit the pieces together, they're developing spatial awareness and honing their fine motor and dexterity skills
- Give your child the gift of creativity with K'NEX and think outside the blocks



Cat. No.	Description	Price
S81358	Beginner 40 Model Building Set	22.50/Ea

K'NEX Education™ Introduction to Structures: Bridges Set

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



- Models demonstrate seven key bridge types: arch, beam, bascule, cantilever, cable-stayed, truss and suspensions
 - Builds 13 bridge models, one model at a time
 - Grades 5 to 9
 - Teacher's guide included
 - 207 pieces
- Key Concepts Include:**
- Design Process
 - Compression
 - Tension
 - Load (Dead and Live)
 - Force
 - Stress
 - Cantilever Construction
 - Suspension Technology

Cat. No.	Description	Price
S67346	Introduction to Structures: Bridges Set	53.75/Ea

K'NEXosaurus Rex Building Set

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

- Offers you and your children a chance to experience the amazing world of dinosaurs by creating your own
- Build a K'NEXosaurus Rex with the 255 vibrant parts and pieces included in this set
- All parts are well-constructed plastic
- Package also includes iconic rods and connectors that snap together to make customizable figures
- Includes an additional model for a Megasaurus dinosaur, and a battery-powered motor to operate the structures
- This building set has downloadable step-by-step instructions for two motorized builds
- Each STEAM toy kids can make is designed for a more exciting playtime
- Promote your kids' development of STEAM (science, technology, engineering, arts, and math) concepts by igniting their natural curiosity and creativity
- Building with K'NEX puts children on the path to a fundamental understanding of STEAM subjects
- Let them design, construct, and customize their own K'NEX structures and enjoy hours of fun playing with them



Cat. No.	Description	Price
S81360	K'NEXosaurus Rex Building Set	32.50/Ea

K'NEX Education™ Introduction to Simple Machines Building Sets

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 a time
- 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
- Wedge Screw
- Gear Ratios
- Mechanical Systems
- Gear Types
- Lever Classes
- Pulley Systems

Levers and Pulleys Set 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

Gears Set Includes:

- 198 K'NEX pieces per set
- Building instructions for seven replicas of real-world machines
- Demonstrates gear configurations, including spur and crown gears, mechanical advantage, gear ratios, how gears are used to change the amount of applied force to an object and more



Wheels/Axles and Inclined Planes Set Includes:

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

Cat. No.	Description	Price
S67348	Levers and Pulleys 8-Model Set	53.25/Ea
S67347	Gears 7-Model Set	53.75/Ea
S67349	Wheel and Axle 7-Model Set	53.75/Ea

K'NEX Education™ STEM Explorations: Roller Coaster Building Set

Students explore STEM concepts while building a working roller coaster.

- Using the materials included in this set, middle-school aged children 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.

Set includes:

- More than 500 parts plus a battery-powered motor for a single child or team of 2-3 children to build a working Roller Coaster
- Two additional models: a Ramp and a Half-Pipe (each model can be built one at a time)

The Experiment Guide is aligned to national STEM standards and is appropriate for grade levels 5 to 9.

Requires 2 AA batteries (not included)



Cat. No.	Description	Price
S14016	Roller Coaster Building Set	62.25/Ea

K'NEX™ Intermediate 60 Model Building Set

K'NEX™ 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, manual dexterity, and spatial awareness; putting them on a path towards a greater understanding of STEM subjects



Cat. No.	Description	Price
S81361	Intermediate 60 Model Building Set	35.00/Ea

K'NEX™ 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 children a resource for learning and enjoying themselves at the same time
- The K'NEX building system contains plastic rods and connectors that join up with a satisfying click
- They can be assembled to create working vehicles, animals, moving structures, buildings, and just about anything else your child 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 your child understand STEAM (science, technology, engineer, arts, and math) subjects
- This set helps in key points of a child's development: hand-eye coordination, fine motor skills, problem-solving ability, spatial awareness, and imagination
- Creating different structures or creatures is possible with the K'NEX rods and connectors, which combine in many different ways
- 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 child can think of



Cat. No.	Description	Price
S81362	Classic Constructions 70 Model Building Set	47.75/Ea

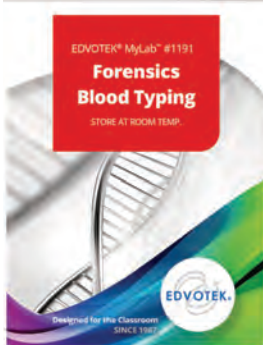
Please see STEM catalog Robotics and Engineering section for more construction sets.

MyLab™ Custom Kit - Forensics Blood Typing



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

- 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 the suspect's blood type
- Understand presumptive versus confirmatory testing
- Grades 9-12



Cat. No.	Description	Price
S06464	Forensics Blood Typing Kit	35.00/Ea

Blood Pressure Kit

How's your blood pressure today?

Our blood pressure kit includes an aneroid sphygmometer, a stethoscope, extra ear buds, and extra diaphragm, and a carrying case. Use this kit to accurately measure blood pressure or teach your students how to take measurements.



Cat. No.	Description	Price
S24562	Blood Pressure Kit	20.25/Ea

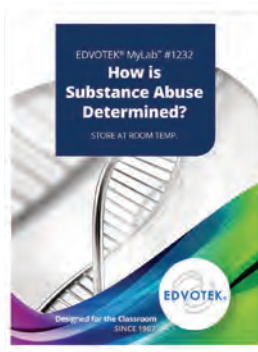
Please see Laboratory Supplies & Consumables catalog for more remote learning products.

MyLab™ Custom Kit - How is Substance Abuse Determined?

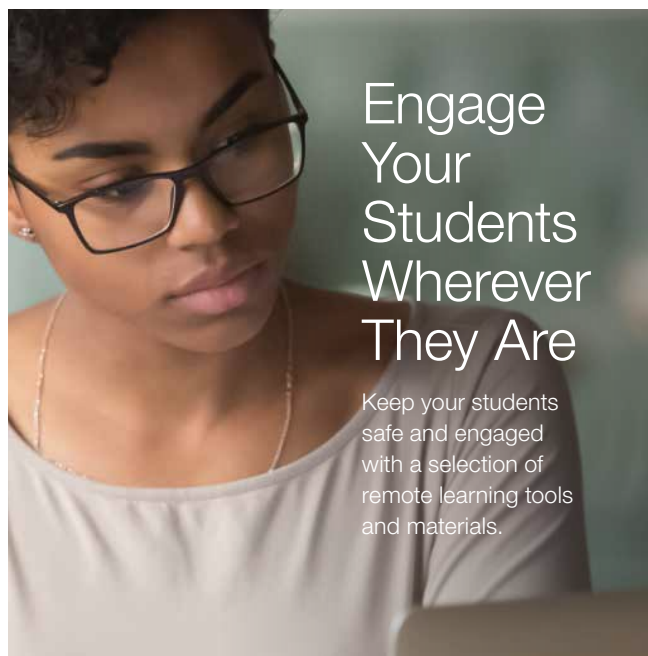


Are you planning a virtual curriculum or looking for experiments ideal for distance learning? With the MyLab™ Custom Kits, you can easily plan your curriculum. Each kit comes with instructions and materials for 2-3 runs of each experiment.

- 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. In this simulation, students test patient samples for illicit substances that can be detected in urine.
- 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
- Grades 9-12



Cat. No.	Description	Price
S06474	How is Substance Abuse Determined? Kit	35.00/Ea



Visit fisheredu.com/remotelearning to learn more.

Delta WASP 2040 Pro and 2040 Industrial (X) 3D Printers and Printer Packages



Delta WASP 2040 PRO delivers accurate and reliable results on all materials with pieces up to 40 x 20cm (15.75 x 7.75 in.).

- Non-deformable belts loaded in steel
- Accurate and reliable with all materials
- Equipped with an autocalibration system and a rectified print surface which guarantees the best performance over time.
- Printer driver is suspended, Bowden Suspended (cc), to make printing faster and minimize weight on the mobile crew.
- Contains all the WASP systems for printing recovery such as the Resurrection System (cc) , Free Zeta System (cc) and end of the material system.
- Suspended Bowden, Resurrection System, Free Zeta System
- Print volume: 200 x 400mm
- Layer height: 50 microns min
- Print speed: 500mm/s max
- Travel speed: 800mm/s max
- Acceleration: 15mm/s²
- Filament: 1.75mm
- PLA PETG ABS PA Carbon

3D Printer package S81243 includes WASP 2040 Pro 3D Printer and complete 101 Tech Support (3 hours). LDM add-on S81244 allows users to print with ceramic/LDM materials. Includes 3 hours of tech support.

Delta WASP 2040 Industrial (X) 3D Printer

- Hot and cold technology for printing with technical materials.
- Use with Spitfire, Zen or Flex extruder.
- Connect to network to manage directly from phone or view onboard camera
- Professional delta printer made of metal, with non-deformable belts loaded in steel, insulated for thermal and noise insulation.
- Innovative system of controlled chamber up to 80° and cooling of the Hot and Cold Technology mechanism, allows the optimal printing of technical materials.
- Technological advancement of WASP has made it possible to configure the printer according to user needs.
- Switching from a single Red Spitfire Extruder for fast prints to a Zen Extruder double extruder for multi-material prints to Flex Extruder to print soft materials (up to shore 50 A) takes a few minutes.
- Can be connected to the network and therefore manage the printer directly via mobile phone, tablet or computer.
- Camera has been inserted inside the printer to monitor printing even if located elsewhere.

- Suspended Bowden, Resurrection System, Free Zeta System
- WIFI to monitor and control remotely
- NEW GUI new graphical interface with TFT screen
- On board camera for monitoring and timelapse
- Aluminum frame and cover, painted steel, polycarbonate, PU.
- Metal casing, eliminates machine vibrations, ensures greater printing precision.
- Print Floor: Aluminum adjusted
- Movements: Nylon wheels on anodized aluminum profiles
- Straps: Delrin with
- Remote assistance for WASP technicians
- Printer volume: 200 x 400mm
- Layer height: 50 microns min
- Print speed: 500mm/s max
- Travel speed: 800mm/s max
- Acceleration: 15,000mm/s²
- Filament: 1.75mm
- ASA ABS High-Impact-PS PETG TPU TPE
- Polypropylene Polycarbonate PC+ABS
- PPS PMMA PVA PA PA Carbon PLA



Complete Industrial 2040 4.0 packages

- Include printer and 3 hr. of tech support
- Choose Spitfire or Zen packages
- LT Zen cartridge - PLA PETG Flex
- HT Zen cartridge - ABS PA PC Hips PA + C ASA PMMA PP

Cat. No.	Description	Price
S81200	Delta WASP 2040 Pro 3D Printer	3500.00/Ea
S81243	Delta WASP 2040 Pro 3D Printer Package	4384.00/Ea
S81244	Delta WASP LDM Add-on	5535.00/Ea
S81246	Delta WASP 2040 Industrial 4.0 3D Printer Zen Package Package	6576.00/Ea

Delta WASP 2040 Clay Printer

Clay 3D printer is open and accessible on three sides to interact during the prints. Accurate and fast using all ceramic materials.

- Professional, compact 3D printer for pieces with 20 cm (7.87 in.) base and up to a height of 40 cm (15.75 in.).
- Features a closed chamber, hot pad and suspended Bowden.
- Accurate, fast and reliable.
- WASP (LDM) Low-Density Material Extruder is able to extrude any low-density materials without large particles inside of it.
- Included with the machine comes a sample of white porcelain to get started.
- Load any paste material that can be made soft enough to be pushed through the extruder with 4 to 6 bar of pressure, and there are no particles that will block the 1mm nozzle.
- Resurrection system
- Free Z System
- Screw controlled dosing extruder
- Integrated air pressure control on the printer
- Rolling block carriages to ensure excellent stability
- Dedicated firmware connection for air tube integrated into the printer
- Print Volume: 200mm diameter x 400mm height
- Nozzle diameter: 1.2mm/ 2mm max
- Layer resolution: 0.5mm
- Max speed: 150mm/s
- Max displacement speed: 150mm/s
- Acceleration: 500mm/s²

2040 LDM/Clay Package

- Compact professional printer- accurate and fast using all ceramic/LDM materials.
- 1x 2040 Clay



- 1x basic tech support (3 hours)
- Spare LDM screw and 25 lb. porcelain

Cat. No.	Description	Price
S81198	Delta WASP 2040 Clay Printer	4950.00/Ea
S81239	2040 LDM/Clay Package	5506.00/Ea

Delta WASP 4070 Industrial 3D Printer and Printer Packages and X

Print big volumes with technical materials using hot and cold technology. Use with Spitfire, Zen or Flex extruder. Connect to network to manage directly from phone or view onboard camera.

- Popular features such as the Spitfire extruder, resurrection system, and filament detection are still there, but the Delta Wasp 4070 Industrial X now boasts upgrades including a touchscreen, Wifi connectivity, and a fully-enclosed heated build chamber.
- Suspended Bowden, Resurrection System, Free Zeta System
- Hot and cold technology
- WIFI to monitor and control remotely
- New GUI new graphical interface with TFT screen
- On board camera for monitoring and timelapse
- Remote assistance for WASP technicians
- Printer volume: 400 x 700mm
- Layer Height: 100 microns min
- Print speed: 150mm/s max
- Travel speed: 200mm/s max
- Acceleration: 15mm/s²
- Bed temp: 120°C max
- Heated chamber: 80°C
- Filament spitfire: 1.75mm
- ASA ABS High-impact-PS PETG TPU TPE
- Polypropylene polycarbonate PC+ABS
- PPS PMMA PVA PA PAcarbon PLA

Delta WASP 4070 packages.

- Accurate and reliable with pieces up to 70 cm (27 in.) H and 40 cm (15.75 in.) XY.
- Includes printer and 8 hr. of tech support.
- Powerful and versatile printer
- Boasts upgrades including a touchscreen, WiFi connectivity, and a fully-enclosed heated build chamber
- Thermal and acoustic insulation
- Controlled actively heated print chamber - temperature up to 70°C
- Heated bed up to 135°C
- Compatible with Spitfire, Zen and Flex extruders
- WiFi connectivity
- Camera inside print chamber
- Touch interface with in-built video tutorials
- Remote diagnostics
- Extruder recognition
- USB thumb drive
- Resurrection System
- Free-Z System
- Door open/closed sensor



Cat. No.	Description	Price
S81248	Delta WASP 4070 Industrial X - Zen Package	18302.00/Ea

Delta WASP 40100 Clay 3D Printer with XL LDM

Accurate and fast using all-ceramic materials. Open and accessible on three sides to interact during printing.



- No stop print: With each printed piece, move the printer and continue production.
- Mold directly on the ground or with an intermediate shelf.
- Extruder with controlled dosage by screw.
- Air pressure control integrated on the printer.
- Trolleys with roller runners to ensure excellent stability.
- Dedicated firmware.

Tech Specs:

- Printing volume:
- Metric: Ø(XY) 400mm x Z 1000mm
- Standard: XY 15.75 in. x Z 39.37 in
- Minimum layer height: 50 micron
- Maximum printing speed: 150mm/s
- Maximum travel speed: 150mm/s
- Acceleration: 500mm/s²
- Operating Systems: Windows, Mac,
- Linux Slicing software
- Interface: SD Card - LCD display
- Physical Dimensions: 85 x 77 x 195 cm (34 x 30 x 77 in.)
- Weight: 80 kg/177 lb.
- Power: Input: 110V 50/60 Hz; Absorbed power: 200 W
- Temperature: Use: 20 to 30°C; Warehouse: 0 to 30°C
- Frame and cover: Aluminium, Steel
- Platform: Steel
- Movements: Nylon wheels on aluminum slides

40100 XL LDM/Clay 3D Printer Package

- Accurate and fast using all LDM materials.
- 1 x 40100 Clay
- 1 x Basic+ Tech Support (8 hr.)
- Spare XL LDM screw
- Standard smaller nozzle extruder and 50 lb. porcelain
- Prints up to 100 cm in height and 40 cm XY. (1 x 40100 Clay, 1 x Basic+ Tech Support (8 hours))
- Spare XL LDM screw
- Standard smaller nozzle extruder, and 50 lb. of porcelain.



Cat. No.	Description	Price
S81199	Delta WASP 40100 Clay with XL LDM	12055.00/Ea
S81240	40100 XL LDM/Clay 3D Printer Package	14948.00/Ea

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- 6 Await Delivery

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PicoOnline Training Packages

Excellent assets for STEM educators and beyond.



Entrepreneurship and Manufacturing Package (S81252). Includes one PicoNaut 3D printer, E3D V6 Lite extruder, all materials needed for 1 to 2 semesters course work and 16 hours of Virtual Teacher Mentorship covering Open Source STEM Curriculum. Printer features auto-bed leveling and produces classroom-appropriate volume.

Entrepreneur and Makerspace Package (S81253). Includes three PicoNaut 3D printers, E3D V6 Lite extruder, all materials needed for 1 to 2 semesters course work and 16 hours of Virtual Teacher Mentorship covering Open Source STEM Curriculum. Printer features auto-bed leveling and produces classroom-appropriate volume.

Sound Visualization Training Package (S81256). Students will learn how sound travels through the air, how audio engineers use their knowledge of sound wave to manipulate sound and learn the anatomy of the ear. S81256 includes 2 days of Teacher Training, 10 sets of hardware and all materials needed for 1 to 2 semesters course work. Full Class LV1 module S81180

Robotics and Electronics Package (S81255). Teaches students the difficulties of missing limbs and how to create a bionic hand to solve these issues. Comes with two days of Teacher Training to customize usage of Open Source STEM Curriculum, 10 sets of classroom hardware, and all materials needed for 1 to 2 semesters course work. No 3D plastic parts are included. All printed parts are open source. All adaptors and hardware included.

Hexapod Online Training Package (S81257). Students 3D print, design, engineer and program a robot. Includes two days of Teacher Training to customize usage of Open Source STEM Curriculum, 8 sets of classroom hardware, and all materials needed for 1 to 2 semesters course work.

Wind Turbine Online Training Package (S81258). Students will study energy, how wind is formed and used for energy harvesting, how wind turbines are built and how those parts work together to generate electricity. Complete package comes with two days of Teacher Training to customize usage of Open Source STEM Curriculum, 8 sets of classroom hardware, and all materials needed for 1 to 2 semesters course work.

Alternative Energy Online Training Package (S81259). Students explore energy, how it is captured and used. Covers wind turbines, solar power and hydro power. Includes Two days of Teacher Professional Development, all materials for 1 to 2 semesters course work, 6 Alternative Energy+ Kits (Wind Vertical and Horizontal, Solar and Hydro) and curriculum.

Cat. No.	Description	Price
S81252	Entrepreneurship and Manufacturing Package	3071.00/Ea
S81253	Entrepreneur and Makerspace Package	4818.00/Ea
S81256	Sound Visualization Online Training Package	1095.00/Ea
S81180	Sound Visualization LV1 Full Class Module	1095.00/Ea
S81255	Robotics and Electronics Online Training Package	1095.00/Ea
S81257	Hexapod Online Training Package	2739.00/Ea
S81258	Wind Turbine Online Training Package	547.00/Ea
S81259	Alternative Energy Online Training Package	1095.00/Ea

3D Printers with WiFi

Ideal for classroom instruction and activities.

- Compatible with Google Chromebook and iPad
- Full enclosures are designed for safety and include HEPA filter

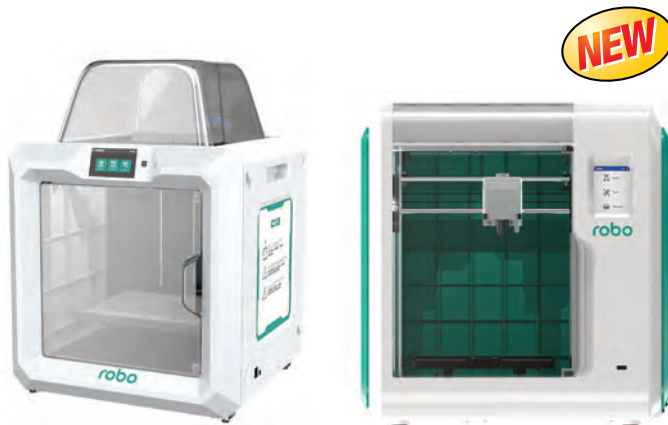
Comes with an extended 2 year warranty, spare parts pack, 2 hours of online training, and a starter plan to MyStemKits K-12 curriculum. One additional hour of online training is available separately (S72786).

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

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



Cat. No.	Description	Price
S81379	Pro Smart Professional Grade 3D Printer with WiFi	1950.00/Ea
S72787	3D Printer with WiFi	950.00/Ea

MyStemKits E3 School Bundle

Deliver STEM education in an interactive and engaging manner, using 3D printing to create manipulatives to over 180 hands-on STEM projects for K-12 students



Includes:

- One-year subscription to the MyStemKits School Plan (maximum of 8 teacher account)
- (2) Robo C2 3D Printers
- (10) 500g rolls of filament
- 2 hours of online training.

Cat. No.	Description	Price
S72791	E3 School Bundle	4250.00/Ea

3D Filament 10 Pack

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



Cat. No.	Description	Price
S72792	3D Filament 10-Pack	190.00/Ea

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



BIOTECHNOLOGY

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TerraCycle™ 3D Printing Materials Zero Waste Box™

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



What to Recycle

- Please send us any ABS printing spools and scrap printing material generated by your 3D printer.
- Do not send in 3D printers, 3D printer parts, or traditional printer cartridges.
- Does not accept printing materials made from PP, PE, PS, PTEG, or PLA.

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

Important Shipping Restrictions

For the Zero Waste Box system to work effectively and safely, please follow these simple shipping guidelines on how and what you can ship back to TerraCycle:

- To prevent contamination, only send in items this system accepts.
- Do not send in household items that may be considered hazardous waste. These include items such as lithium-ion batteries, pressurized canisters, pesticides, oil-based paint or medical sharps, organics, broken glass, biomedical waste, soiled diapers, or expired medication. Do not send in anything sharp, flammable, reactive, corrosive, ignitable, radioactive, toxic, infectious, or pathogenic.
- Do not send in medical waste. This includes material contaminated with blood or bodily fluids that originate from health care facilities, hospitals, physicians offices, dental offices, blood banks, veterinary clinics, research laboratories, etc.
- Do not ship dripping packages. Please make sure all excess product has been removed before putting it in your Zero Waste Box, Pouch, or Pallet.



If you choose to rinse your items, please note that the system must be completely dry prior to shipping.

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

Cat. No.	Capacity	Dimensions (L x W x H)	Price
S88854135	39.66 L	11 x 11 x 20 in.	155.00/Ea
S88854136	79.31 L	11 x 11 x 40 in.	253.00/Ea
S88854137	136.42 L	15 x 15 x 37 in.	455.00/Ea

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Robotics & Engineering

STEAM Inventor

A big, beautiful tube of inventing fun! Certified as an authentic STEM experience, kids can enter into the world of LUX construction and learn how to build big working machines, creatures, or their own toys and inventions.



- Kit includes 223 pieces
- Contains small parts which may present a choking hazard
- Packaging: Clear, 14 in. Tube

Cat. No.	Description	Price
S81700	STEAM Inventor	66.50/Ea

The Build Anything Bin

Kit contains 1000 pieces allowing kids to create virtually anything! Provides children a creative outlet to help them learn and retain the perfect balance of physical, emotional, and cognitive stimulation.



- 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 LUX colors, all in secured in a durable storage tote
- LUX is a Parents' Choice Gold Award Winner, named Top Toy in 2018 and 2019 by Autism Live
- Used by many educators for teaching STEAM in classrooms (Science, Technology, Engineering, Art and Math)
- ABS Plastic is tested safe and presents no choking hazard

Cat. No.	Description	Price
S81701	The Build Anything Bin	199.00/Ea

Elementary Snap Circuits Kit

Great introduction to the world of electricity and electronics.

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

Includes:
Storage case

Requires:
Two AA batteries (S43921)



IQ KEY Perfect 600 Robotic STEM Kit

For students to learn about engineering and its applications.

Stimulates right brain creativity by encouraging students to design and build machines of their own.



- With plans to build twenty different machines
- Identify different simple machines working together to transfer and transform energy
- Used to teach with Common Core, National Next Generation Science Standards, also encourages STEM education
- Requires 2 x AA batteries, not included
- Includes teacher's guide

Certifications: CE

Cat. No.	Description	Price
S13168	IQ KEY Perfect 600 Robotic Stem Kit	98.00/Ea

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)

Includes: Instruction manuals

Cat. No.	Description	Price
S66934A	Snap Circuits™ Jr.™ 100 Experiment	49.25/Ea
S66934	Snap Circuits™ 300 Experiment	96.00/Ea

Cat. No.	Description	Price
S68214	Elementary Snap Circuits Kit	75.00/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

Ordering Information:

Student and teaching guides (S68213TG and S68213SG, sold separately) help integrate more advanced topics in electronics. Optional computer interface takes learning to the next level with an additional 73 experiments.

Requires:

Four AA batteries (S43921)

Cat. No.	Description	Price
S68213	Intermediate Snap Circuits Kit	148.50/Ea

Eisco™ Series and Parallel Circuit Demonstration Board

Helps student to distinguish between series and parallel circuits.

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



Includes:

Sturdy base, (5) 1.5V lightbulbs, 8 detachable metal bars, 10 thumb screws, Instructions

Cat. No.	Description	Price
S13003	Series and Parallel Circuit Demonstration Board	69.00/Ea



Log in to your account on fisheredu.com to see your discounts.

STEAM Accelerator Deluxe Classroom Set—Neutral Palette

Explore concepts in disciplines including biology, chemistry, math, physics, engineering and more. Lux Blox™ STEAM Accelerator Deluxe Classroom Set Neutral Palette brings STEAM concepts to life.



- Unlimited Opportunities for Creativity and Imagination
- Great Manipulative for Younger Students
- Includes Laminated Starter Guide and Extensive Teacher's Primer
- 800 Lux Squares - 200 each of Black, Gray, Olive and White
- 300 Lux Trigons - 100 each of Black, Olive and White
- 40 Large Lux Multi-Wheels, Which Also Function as Gears and Pulleys
- 40 Small Lux Multi-Wheels, Which Also Function as Gears and Pulleys
- 40 Large Lux Axles
- 40 Medium Lux Axles
- 40 Small Lux Axles
- 40 Giant 7 in. Rubber Bands
- Comes in a Durable Plastic Storage Unit
- Made in the USA

Cat. No.	Description	Price
S72519	STEAM Accelerator Deluxe Set, Neutral Colors	430.00/Ea

K'NEX™ 6 ft. Ferris Wheel



The ultimate K'NEX™ building challenge recommended for builders age 16 and up.

- With 8,548 colorful parts and easy-to-follow instructions, you can build this towering ferris wheel one piece at a time, for hours of building fun
- Switch on the powerful, plug-in motor to bring the hulking ride to life
- Requires 2 x AA batteries, not included
- The 6-Foot Ferris Wheel is recommended for expert builders ages 16 and up
- Product ships in 2 separate boxes



Cat. No.	Description	Price
S81364	6 ft. Ferris Wheel	601.00/Ea

PicoBots Assorted Packs

PicoBots Assorted Packs allow users to build a PicoBot in your the or classroom to teach basic engineering, motors, circuits, and physics concepts (i.e. balance principles).



- A PicoBot is a small robot made by inserting a vibrating pager motor into a 3D printed animal body. The vibrations from the motor travel down the bristle legs and cause the PicoBot to move and spin on flat surfaces.
- Adjust movement patterns by bending, twisting, and angling the pipe cleaners into different positions.
- Build time: 3 to 10 minutes.
- Suitable for ages 5+
- Kit contains an assorted classroom set of Picobot animals.
- Ideal for camps, scout troops, homeschool, libraries, after-school, STEM/STEAM groups, birthday party, and classroom activities.
- Race or battle them against each other
- Kit includes: Assorted Characters, Vibrating DC Motor (1.5 V), Batteries (1.5 V), Pipe Cleaners, Google Eyes

Cat. No.	Description	Price
S81172	Pico Bots, 4 Pack	22.00/Ea
S81173	Pico Bots, 25 Pack	109.00/Ea

Bristlebots

Build a Bristlebot in the home or classroom to 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 and 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 them against each other



Cat. No.	Description	Price
S81174	Bristlebots	109.00/Ea

Hexapod Quickbuild Maker Kits



3D printed fully functional STEM project where students design, engineer, 3D print, and program a robot

- Control a robot from the included game pad which is able to execute 60 different motions and record and playback game pad actions.
- Fully supports the MIT drag-and-drop programming system to create custom motions and read sensors on the robot. Allow new motions to be stored on the game pad and called up using game pad buttons.
- All 3D models are open source: Modify them and add hacks and extensions. All software is also open source.
- QuickBuild kits already have electrical components other than servos wired together. This makes it far easier for younger students to assemble and eliminates almost all wiring errors. All kits are protected against reverse-battery insertion, making it far more kid-friendly than older versions of the project.
- Pre-wired electrical system cuts the build from about two hours to under one hour and also eliminates wiring errors.



Not included:

- Batteries. The hexapod requires two 18650 LI-ON batteries and a compatible smart charger. The game pad takes any kind of standard 9 V rectangular battery, either rechargeable or disposable work fine.

Two versions offered

- Deluxe Kits (S81175B, S81175Y, S81175R and S81175G) have no 3D plastic parts.
- Complete Kits (S81176B, S81176G, S81176R and S81176Y) include 3D plastic parts.

Both versions include:

- Prewired electrical wiring
- Light sensor
- Ultrasonic range finder sensor
- Programming cable
- Extra accessories for games like Joust

Cat. No.	Color	Price
Deluxe Kits (No plastic parts)		
S81175B	Blue	251.00/Ea
S81175Y	Yellow	251.00/Ea
S81175R	Red	251.00/Ea
S81175G	Green	251.00/Ea
Complete Kits (with 3D plastic parts)		
S81176B	Blue	329.00/Ea
S81176G	Green	329.00/Ea
S81176R	Red	342.00/Ea
S81176Y	Yellow	329.00/Ea

Please see Life Science catalog for bioengineering products.

FISHER SCIENCE EDUCATION NURSING AND CTE EDUCATION PROGRAMS



Career and Technical Education (CTE) gives students a head start on a future career in a STEM field. The Fisher Science Education brand offers the tools educators need to get them ready.

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Engage Your Students Wherever They Are

Keep your students safe and engaged with a selection of remote learning tools and materials.

You'll find:

- Products for real-time instruction
- Activities for independent learning
- Physical distancing aids
- And more

Visit fisheredu.com/remotelearning to learn more.



Makerspace Supplies

Vacuum Forming Makerspace PicoOnline VTM Package



Vacuum Forming Makerspace PicoOnline VTM Package is an excellent asset for STEM Educators and beyond.

Package Includes:

- 16 hours of virtual teacher mentorship to customize usage of Open Source STEM Curriculum
- 3 vacuum formers
- All materials needed for 1 to 2 semesters course work



Cat. No.	Description	Price
S81251	Vacuum Forming Makerspace PicoOnline VTM Package	5202.00/Ea

Eisco™ magiClass™ Remote Clickers

Simpler, faster, smarter response and voting system.

Closes gaps in the classroom by ensuring that the needs of all students are taken into account, no matter how quiet or shy.

- No interferences from other collectors in other classes
- Can be located anywhere in the classroom



Ultimate remote clicker (S01012A)

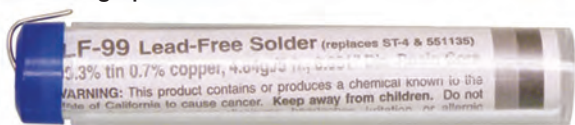
This remote clicker combines intuitive operation and ease of use with all the features of an advanced response system.

- User-friendly intuitive operation
- Students can answer multiple-choice, yes/no and true/false questions
- Students can request help
- LED indicators display immediate individual feedback of right or wrong answers
- Instructors receive real-time feedback from students
- Batteries included

Cat. No.	Description	Price
S01012A	Ultimate Remote Clicker	138.00/Ea

Soldering Tools

For soldering operations.



Cat. No.	Description	Includes	Price
S97693	Desoldering Pump	Anti static tip	4.95/Ea
S97692	Lead-free Solder Tube	Rosin core	6.25/Ea

Practical Soldering Project Kit

Practice good soldering techniques.

- Working with printed circuit boards is in the future of every electronic technician
- Helps achieve good soldering techniques
- Allows familiarity with a variety of electronic components
- Provides dynamic results



Requires: 9V battery

Cat. No.	Description	Price
S65260	Practical Soldering Project kit	14.50/Ea

Permoplast™ Modeling Clay

Non-hardening, stainless modeling clay.

- Nontoxic, antiseptic and harmless
- Retains plasticity for repeated usage time and time again
- Can be squeezed, pushed, pulled
- Four assorted colors: gray, green, red, brown
- Pack of 4



Cat. No.	Description	Price
S17307	Permoplast™ Modeling Clay	12.50/Pk

Primary Science Sensory Tubes

Clear tubes nurture sensory development and science exploration.

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



Cat. No.	Description	Price
S04656	Sensory Tubes	39.25/Ea

Wire Stripper Tool

Highly functional and useful tool.

- Cuts, strips, and crimps 10–22 gauge wire
- Cushion grip
- 8 in. long (20.3cm)



Cat. No.	Description	Price
S68259	Wire Stripper Tool	7.50/Ea



Products to Complete Your Makerspace

Stock up on the products you need to continue making, learning, and exploring in your classroom.



Description	Cat. No.	Quantity	Price
Cups			
Foam Cups, 8 oz.	1,000/Pk	S04196	\$82.00
Paper Cups, 8 oz.	100/Pk	S04200	\$17.75
Plastic Cups, Clear, 7 oz.	100/Pk	S04202	\$33.75
Plastic Cups, Clear, 16 oz.	50/Pk	S04170	\$16.50
Translucent Cups, 2.5 oz.	45/Pk	S04589	\$6.10
Translucent Cups, 7 oz.	100/Pk	S04575	\$15.00
Office Supplies			
Colored Pencils, Assorted Colors, 12 Pack	Each	S04194	\$4.60
Scissors	Each	S30679	\$2.85
Scissors	12/Pk	S30680	\$33.00
Wax Pencil, Black	Each	S04191	\$1.50
Glass and Plasticware			
Beakers, Plastic, Set of Five	Pack	S400563B	\$20.75
Cylinders, Glass, Set of Five	Pack	S04406	\$96.00
Beakers and Cylinders, Plastic, Set of 40	Each	S02651	\$144.00
Plastic Funnel	Each	S04580	\$4.80
Soil and Rock			
Aquarium Gravel, 5 lb.	Each	S06534	\$18.50
Fine Sand, 8 Cups	Each	S042868	\$11.00
Potting Soil, 8 Cups	Each	S042858	\$11.00
Potting Soil, 5 lb.	Each	S05363ND	\$5.10
Unwashed Sand with Silt, 5 lb.	Each	S05365	\$3.65

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



Products to Complete Your Makerspace



Description	Cat. No.	Quantity	Price
Wood			
Chopsticks	100/Pk	S04178	\$11.50
Craft Sticks	50/Pk	S05361	\$5.30
Dowel Rod, 0.5 in.	Each	S04172	\$2.90
Miscellaneous			
Balloons, Assorted Colors	144/Pk	S04187	\$31.75
Cotton Twine, 420 ft.	Each	S05367	\$4.35
Dial Caliper, 6 in.	Each	S15669	\$41.75
D-Cell Alkaline Batteries	8/Pk	S05148	\$7.60
Foam Trays, 9 x 12 in.	Each	S04188	\$0.40
Glass Marbles, Assorted Colors	16/Pk	S04581	\$7.15
Magnifying Glass	Each	S04173	\$4.25
Masking Tape, 60 yd., 9/Pk	Each	S30681	\$26.50
Pipe Cleaners, Assorted Colors	1,000/Pk	S04193	\$83.00
Plastic Zip Bags, 1 L	100/Pk	S05254	\$10.75
Plastic Zip Sandwich Bags	100/Pk	S04588	\$12.25
Ring Magnet	Each	S04585	\$2.00
Styrofoam Balls, 1 in.	12/Pk	S04571	\$12.25
Styrofoam Head with Flat Face	Each	S20614	\$19.75
Waxed Paper, 75 sq. ft.	Each	S05379	\$4.15
White Vinegar, 32 oz.	Each	S04577	\$7.65

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



Flexible, Fast, and Simple



The NeuLog™ 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
- 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.

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.

See [page XX](#) or 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?

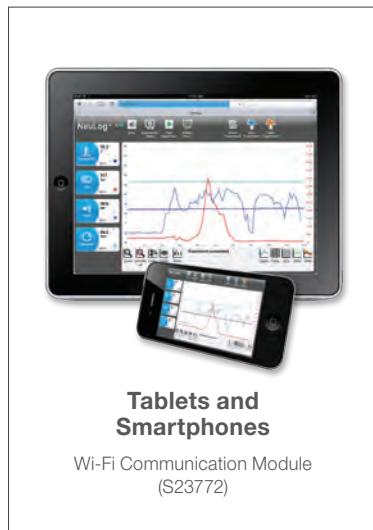
See [page XX](#) for details.

Options



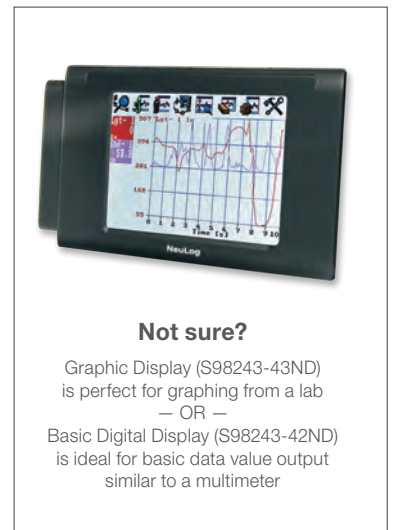
PC

USB Module (S98243-45ND)
— OR —
Bluetooth (S30783ND)
— OR —
Wi-Fi Module (S23772)



Tablets and Smartphones

Wi-Fi Communication Module (S23772)

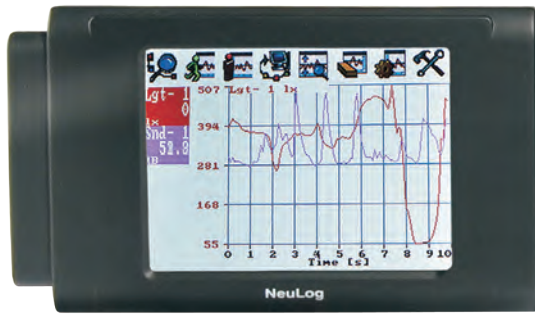


Not sure?

Graphic Display (S98243-43ND) is perfect for graphing from a lab
— OR —
Basic Digital Display (S98243-42ND) is ideal for basic data value output similar to a multimeter



All options require a **Battery Unit** (S39112)



S98243-43ND



S23772



Choose from over 45 NeuLog sensors.

NeuLog Modules and Displays

Description	Cat. No.	Price
Wi-Fi Module	S23772	\$172.00
Basic Digital Display	S98243-42ND	\$64.75
Digital Graphic Display	S98243-43ND	\$178.00

Description	Cat. No.	Price
USB Module	S98243-45ND	\$57.50
Battery Unit	S39112	\$45.50
Bluetooth	S30783ND	\$118

NeuLog Sensors

Description	Cat. No.	Price
CO ₂ Logger Sensor	S98243-3ND	\$332.00
Force Logger Sensor	S98243-9ND	\$166.00
Force Plate Logger Sensor	S98243-12ND	\$311.00
Galvanic Skin Response (GSR) Logger Sensor	S98243-51ND	\$155.00
Heart Rate and Pulse Logger Sensor	S98243-15ND	\$78.00
Light Logger Sensor	S98243-20ND	\$69.75
Motion Logger Sensor	S98243-23ND	\$131.00
Oxygen Logger Sensor	S98243-8ND	\$294.00
Panda Multi-Sensor	S13941	\$360.00
Panda Wi-Fi Module	S13942	\$193.00
pH Logger Sensor	S98243-24ND	\$119.00

Description	Cat. No.	Price
Photogate Logger Sensor	S98243-25ND	\$93.00
Salinity Logger Sensor	S98243-29ND	\$123.00
Soil Moisture Logger Sensor	S98243-30ND	\$104.00
Sound Logger Sensor	S98243-22ND	\$103.00
Spirometer Logger Sensor	S98243-28ND	\$128.00
Surface Temperature Logger Sensor	S98243-33ND	\$44.25
Temperature Logger Sensor	S98243-31ND	\$60.25
UVB Logger Sensor	S98243-37ND	\$124.00
Voltage Logger Sensor	S98243-7ND	\$65.25

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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 is essential instructor information such as teaching tips, instructions for preparing solutions, suggested answers, and sample data.

Lab Book	Cat. No.	Price
<i>Chemistry with Vernier</i>	S16047ND	\$53.00
<i>Biology with Vernier</i>	S16045ND	\$53.00
<i>Physics with Vernier</i>	S16046ND	\$53.00
<i>Middle School Science with Vernier</i>	S15962ND	\$53.00
<i>Vernier Chemistry Investigations for Use with AP* Chemistry</i>	S16079ND	\$53.00
<i>Advanced Biology with Vernier</i>	S16096ND	\$53.00
<i>Investigating Environmental Science through Inquiry</i>	S16049ND	\$53.00
<i>Advanced Chemistry with Vernier</i>	S16119ND	\$53.00
<i>Elementary Science with Vernier</i>	S15989ND	\$53.00
<i>Human Physiology Experiments</i>	S16036ND	\$53.00

* AP and Advanced Placement Program are registered trademarks of the College Entrance Examination Board, which was not involved in the production of and does not endorse this product.

Visit fishersci.com for a full list of lab books.

Getting Started with Go Direct Sensors

Why Choose Go Direct Sensors?

With over 40 sensors to choose from, the Vernier Go Direct family of sensors offers an affordable solution. 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 wireless technology or USB.

B Device

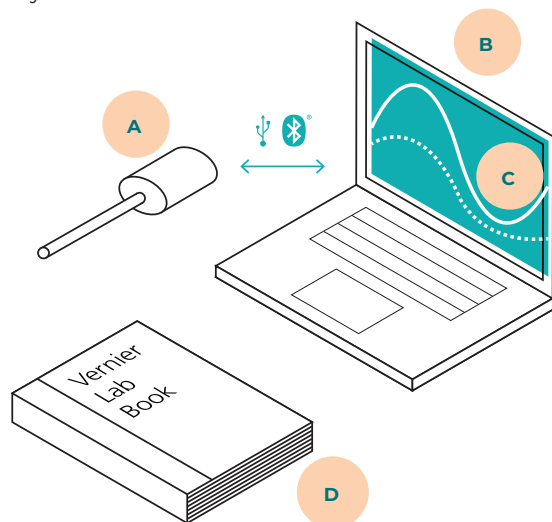
Go Direct sensors connect to a wide variety of devices, including Chromebooks, computers, and mobile devices.

C Vernier Graphical Analysis™ App

Our data-collection app facilitates student understanding with real-time graphs of experimental data. To learn more, visit vernier.com/ga

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	\$78.00
Go Direct Force and Acceleration	S39711	\$114.00
Go Direct Motion	S39717	\$114.00
Go Direct pH	S39725	\$104.00
Go Direct CO ₂ Gas	S39703	\$226.00
Go Direct SpectroVis® Plus	S16260ND	\$430.00
Go Direct Gas Pressure	S39713	\$100.00
Go Direct Conductivity	S39705	\$119.00
Go Direct O ₂ Gas	S39722	\$213.00
Go Direct Photogate	S16296ND	\$100.00

Visit fishersci.com for a full list of sensors.



Go Direct
CO₂ Gas



Go Direct
Force and Acceleration



Go Direct
O₂ Gas



Go Direct
Motion



Go Direct
Gas Pressure



Go Direct
Photogate



Go Direct
Conductivity



Go Direct
pH



Go Direct
SpectroVis® Plus



Go Direct
Temperature

Vernier Interface Data Logging



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—the classroom, at home, or in the field.

B Sensors

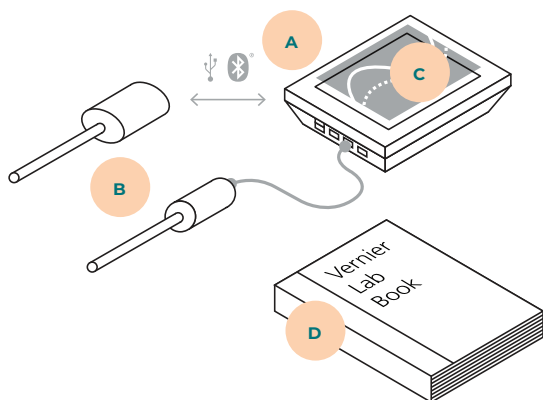
Compatible with all Vernier sensors, LabQuest 3 connects wirelessly to Go Direct® and LabQuest sensors.

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.

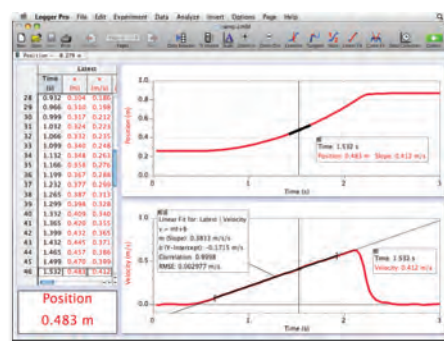


LabQuest Sensors	Cat. No.	Price
Stainless Steel Temperature Probe	S16268ND	\$41.00
pH Sensor	S16238ND	\$102.00
Gas Pressure Sensor	S16052ND	\$95.00
Dual-Range Force Sensor	S16050ND	\$124.00
Motion Detector	S405904	\$103.00
Current Probe	S16059ND	\$50.00
Vernier Photogate	S16279ND	\$55.25
Differential Voltage Probe	S16060ND	\$50.00
CO ₂ Gas Sensor	S16055ND	\$299.00
O ₂ Gas Sensor	S16069ND	\$216.00
Voltage Probe	S16072ND	\$14.25

Interfaces	Cat. No.	Price
LabQuest 3	S1724327	\$379.00
LabQuest Stream	S39801	\$271.00
LabQuest Mini	S16035ND	\$184.00
Go! Link Interface	S16161ND	\$75.00

Software	Cat. No.	Price
Logger Pro	S16053ND	\$303.00

Visit fishersci.com for a full list of sensors.



Logger Pro 3

Logger Pro® is the award-winning, data-collection and analysis software for Windows® and macOS® from Vernier. With the complete suite of data-collection and analysis tools, Logger Pro is suitable for all students, beginning to advanced.

Wind Experiment Kits

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

The KidWind Project 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	\$139.00
KidWind Advanced Wind Experiment Kit	S04798ND	\$182.00
KidWind Mini Wind Turbine with Blade Design	S04818ND	\$74.50
Solar Energy Exploration Kit	S40815	\$90.00
SimpleGEN	S04824ND	\$68.50
2V/400mA Solar Panel	S04828ND	\$21.50
Go Direct Energy Sensor	S39721	\$103.00



Go Direct Spectrometers

Why choose Go Direct spectrometers?

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.

Learn more about the free Vernier Spectral Analysis app at vernier.com/spectral-analysis

Spectrometer	Cat. No.	Price
NEW Go Direct Emissions Spectrometer	S16292ND	\$1,000.00
NEW Go Direct Fluorescence/UV-VIS Spectrophotometer	S16293ND	\$3,000.00
Go Direct SpectroVis™ Plus	S16260ND	\$450.00
NEW Go Direct Visible Spectrophotometer	S16294ND	\$1,900.00
NEW Go Direct UV-VIS Spectrophotometer	S16295ND	\$2,500.00



Go Direct Emissions Spectrometer



Go Direct Fluorescence/UV-VIS Spectrophotometer



Go Direct SpectroVis Plus



Go Direct Visible Spectrophotometer



Go Direct UV-VIS Spectrophotometer

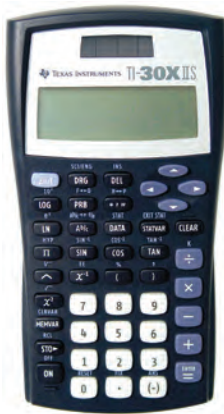
Math

Calculators

Texas Instruments™ TI-30X IIS Calculator

Combine basic scientific and trigonometric functions.

- Two-line display shows entries on top line and results on bottom line
- 11-character display on top line can be scrolled left or right — up to 88 characters
- 10-character display on bottom line can include a two-digit exponent, fraction display capabilities, operation with mixed fractions and numbers, fraction/decimal conversion, and degrees/radians conversion
- Can be powered by solar and battery
- S65241TP Teacher's Pack includes 10 calculators



Cat. No.	Description	Price
S65241	TI-30X IIS Scientific Calculator	22.50/Ea
S65241TP	TI-30X IIS Scientific Calculator Teacher's Pack	227.00/Pk

Texas Instruments™ TI-30Xa Calculator

Performs 54 commonly used scientific/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

Includes: Hard cover case and quick reference card



Cat. No.	Description	Price
S40649	TI30Xa Calculator	17.75/Ea

Texas Instruments™ TI-84 Plus Calculator

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™ panel (S66344) or TI-Presenter™ projection devices
- Powered by four AAA batteries with lithium battery backup
- Automatic Power Down™ (APD) capabilities



Specifications

- 64 × 96 pixel display with split screen
- 24K available memory Flash ROM: 480K for Plus; 1.5MB for Plus Silver
- Clock
- I/O and USB ports

Warranty: One year limited

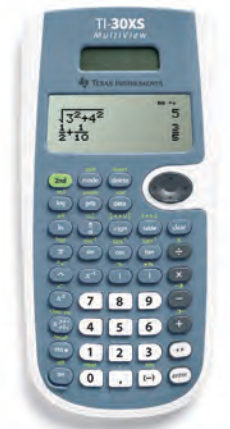
Cat. No.	Description	Price
S68601	TI-84 Plus Calculator	127.00/Ea

Texas Instruments™ TI-30XS MultiView™ Scientific Calculator

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.	Description	Price
S96892	TI-30XS Multiview Scientific Calculator	25.50/Ea

Texas Instruments™ TI-108 Calculator and Teacher's Kit

TI's most widely used school calculator.



- Takes standard classroom functions further with percent, square root, memory keys and a \pm key
- Bright, color-coded keyboard has hard plastic keys
- Solar panel operates in low light; never needs batteries
- Slide case helps protect calculator
- Teacher's kit (S43195TP), includes 10 calculators, storage caddy, poster and instructional materials in English and Spanish

Cat. No.	Description	Price
S43195	TI-108 Calculator	13.00/Ea
S43195TP	TI-108 Teacher Kit	105.00/Ea

Calc-U-Store™ Pocket Chart

Holds up to 35 student calculators in clear pockets. Easy-access storage chart uses numbered pockets.



- Made of tough, red nylon
- Fitted with reinforced grommets for hanging
- Overall: 29 x 36 in. (72.5 x 90cm)
- Pocket: 3.75 x 4 in. (9.38 x 10cm)

Cat. No.	Description	Price
S40690	Calc-U-Store Storage Chart	20.00/Ea

Measurement

United Scientific™ Precision Measuring Set

United Scientific™ Precision measuring set contains four high quality instruments housed in sturdy plastic storage case.

Kit Contents:

- Micrometer Caliper: 0 - 25mm x 0.01mm
- Knife Edge Square, 90°: 100 x 70mm
- Vernier Caliper: 150mm x 0.02mm
- Steel ruler: 15cm x 0.5mm



Cat. No.	Description	Price
S43608	Precision Measuring Set	100.00/Ea

Eisco™ Single Sided Meter Sticks



Single Sided Meter Sticks are constructed from durable and feature a zero top and vertical reading

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

Warranty:
1 year limited manufacturer warranty



Cat. No.	Quantity	Price
S88345	1	6.35/Ea
S88346	10	63.00/Ea

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: 1W x 0.25 in. thick (2.54 x 0.63cm)

Cat. No.	Description	Price
S40626	Brass End	8.00/Ea
S40625	Plain End	9.65/Ea

12-Inch Rulers

Made of shatter-resistant material.

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



Cat. No.	Description	Material	Price
S90532A	Clearview Ruler	Shatter resistant	8.50/Pk of 12
S90532B	Flexible Ruler	Shatter resistant	16.00/Pk of 12
S90532C	Clear Ruler	Shatterproof	1.00/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:
1.125W × 0.31 in. thick
(2.85 × 0.8cm)



Cat. No.	Description	Price
S32051	Plain end	7.40/Ea
S32052	Metal end and hanging hole	12.25/Ea

Interlocking Cube Grams

Each cube measures one cubic centimeter and weighs one gram.

Ten brightly colored cubes have receptacles and fittings to easily chain together.



Demonstrate the following concepts:

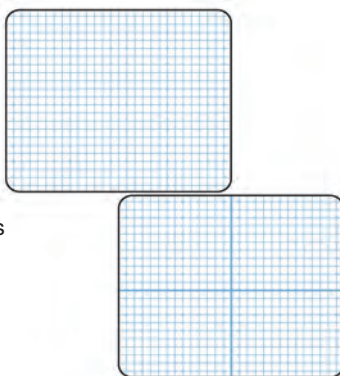
- Factoring
- Determining conservation of mass
- Squaring fractions
- Pythagorean Theorem
- Commutative and associative properties

Cat. No.	Description	Price
S94316	100/Pk.	8.00/Pk
S94317	200/Pk.	5.25/Pk
S40445	1000/Pk.	45.25/Pk

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 1cm grid for mechanical drawing or X/Y axis for graphing on the other
- Pack of 30



Cat. No.	Description	Price
S94341	Write 'N Wipe Boards, 1cm grid	45.25/Pk
S94342	Write 'N Wipe Boards, X/Y axis and grid	45.25/Pk

Eisco™ Vernier Caliper with Case



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. (0.05mm) Vernier scale
- Laser engraved graduations that will not fade over time
- Includes a locking screw to ensure precise measurements



Cat. No.	Description	Price
S27639	Vernier Caliper with Case	24.50/Ea

United Scientific™ Vernier Calipers

Graduated in both English and metric. Designed for monitoring outside, inside, depth and step measurements

S90343

- Stainless steel
- Full length depth gauge
- Friction ruler
- Sliding lock for gauging
- Max. range: 5 1/2 or 140mm
- Readability: 1/16 in. or 1mm

S90344

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

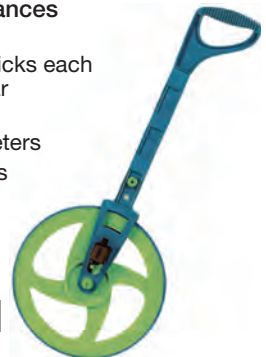


Cat. No.	Capacity (Metric)	Material	Price
S90343	140mm	Stainless Steel	7.05/Ea
S90344	150mm	Plastic	10.50/Ea

Trundle Wheel with Counter

Now it's easy to measure long distances using metrics.

- Each click indicates 1m; counter clicks each meter so students can see and hear the measurement
- Counter measures up to 99,999 meters
- Easy-grip handle adjusts for various student and teacher heights
- Nonslip rubber tire for accurate reading
- Grades 1+



Cat. No.	Description	Price
S94235	Trundle Wheel with Counter	45.60/Ea

Eisco™ Polypropylene Cup and Scoop Measurement Set

Polypropylene Cup and Scoop Measurement Set is ideal for classroom and laboratory use



- 5 clear polypropylene cups
- 25 mL capacity
- 5 ml graduations
- 5 natural polypropylene scoops
- 2.5 mL capacity
- Scoops can be used to scoop solid materials as well
- Perfect for introductory measurement lessons

Cat. No.	Description	Price
S80688	Cup and Scoop Measurement Set	7.75/Ea

Forensics

Evidence Collection

Blood Typing Anti-Sera

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

- Five milliliter vial contains 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
- Not regulated by DOT



DISCLAIMERS:

For educational use only. Not FDA approved for clinical use.

Cat. No.	Description	Price
S06627	Blood Typing Anti-Sera: Anti Rh	31.00/Ea
S37733	Blood Typing Anti-Sera: Anti-H Lectin	43.50/Ea
S06626	Blood Typing Anti-Sera Type A, B and Rh	63.75/Ea
S06625	Blood Typing Anti-Sera: Anti-A and Anti-B	30.75/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. (78.7cm)
- W x L: 3 in. x 1000 ft. (7.5cm x 300m)



Includes: Dispenser box is furnished with each roll.

Cat. No.	Description	Price
S69003A	Crime Scene Barrier Tape	30.05/Ea

Stay Connected with the Fisher Science Education Team

Follow us on



Sirchie™ Fingerprinting Supplies

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

Long-handle Brush

- Selected, high-quality camel hair for latent powder applications only
- Fine hair eliminates scratching ridge details
- Handle is balanced for easy use
- Supplied with a protective container and cap
- L × dia.: 9 × 0.5 in. (22.9 × 1.3cm)

Kit-Sized Fiberglass Brush

- 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. × L: 0.25 × 2.75 in. (0.6 × 7.0cm)

Black Marabou Feather Duster

- 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. (12cm); feather L: 4.5 in. (11cm)

Cleaner Towelettes

- 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

- 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
- Available in 2 oz. (59mL) or 4 oz. (118mL) quantities

Supremink™ Fingerprint Ink

- 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
- Available in 2 oz. (59mL) or 4 oz. (118mL) quantities

Flawless Fingerprint Ink Pad

- 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. (4.1 × 0.9cm)

4 in. (10cm) Fingerprint Ink Roller

- Effective and economical
- One-piece design ensures the integrity of the complete roller assembly
- Design prevents the roller from touching the inking table when not in use
- Rugged, aluminum handle and rubber grip area for operator comfort and control
- Medium-soft, high-density rubber roller element withstands repeated cleaning with solvents

Fingerprint Record Cards (No Imprint)

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

“Hi Fi” Silk Black Powder

- 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. (59mL); Net Wt. 0.7 oz. (21g)



Redescent™ Fluorescent Powder

- Works especially well on dark or multicolored surfaces — greatly enhancing ridge details when illuminated
- Ultraviolet or blue frequencies (254 to 525nm) excite fluorescence
- Quantity: 2 oz. (59mL); Net Wt. 0.8 oz. (24g)

Fingerprint Pattern Wall Chart

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

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. (68.9g)

Cat. No.	Description	Price	Cat. No.	Description	Price
S99530	Long-Handled Brush	27.00/Ea	S69000F	Fingerprint Ink Roller	28.50/Ea
S99528	Kit-Sized Brush	19.50/Ea	S99521	Fingerprint Record Card	37.50/Pk
S99529	Feather Duster	21.25/Ea	S99527	Fluorescent Print Powder	19.00/Ea
S99524	Cleaner Towelettes	23.00/Ea	S99526	Latent Print Powder	11.75/Ea
S69000C	Search™ Fingerprint Ink	15.15/Ea	S99522	Fingerprint Pattern Wall Chart	29.75/Ea
S69000E	Supremink™ Fingerprint Ink	15.15/Ea	S99532	Regular Black Magnetic Latent Print Powder	12.25/Ea
S69000A	Ink Pad	13.50/Ea			

Bio-Foam™ Impression Kit

Quick and easy-to-use system makes footwear impressions without damage or contamination.

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



Cat. No.	Description	Price
S99543	High-Density Impression Kit	12.25/Ea

Tex Magnetic Fingerprint Powder Applicator

Powerful 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	Fingerprint Powder Applicator	7.50/Ea

Shake-N-Cast™ 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

Ordering Information:

One kit is sufficient for casting a full-sized adult shoe print.

Includes:

2 lb. (0.9kg) dental stone and 14 oz. (414mL) liquefier, factory-sealed in a heavy-duty plastic pouch



Cat. No.	Description	Price
S99541	Shake-N-Cast Impression Kit	19.75/Ea

PrintMatic™ 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
- Dimensions: 15.8 x 7.6 x 1.2cm; Weight: 88.7mL



Cat. No.	Description	Price
S99191	Flawless Ink Pad	32.00/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.



Cat. No.	Description	Price
S99534	Magnetic Powder Applicator	31.75/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. (5cm x 9.1m)
- Wound on standard 1 in. core to fit lifting tape dispensers



Cat. No.	Description	Price
S99535	Transparent Lifting Tape	11.25/Ea

Activity Kits

Forensic Case Study: Murder At Eagle Nest Harbor

A murder in a quiet house boat 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 hand writing evidence to help pin point 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.	Description	Price
S40780	Forensic Case Study: Murder At Eagle Nest Harbor	63.75/Ea

Kemtec™ 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 case using deductive reasoning
- Grades 7-12
- Class size: 24 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

Requires:

Microscopes, water bath, and test tubes with stoppers

Includes:

Cloth (simulated silk, cotton, linen, polyester, simulated wool), cat hair, human hair, dog hair, police envelope, suspect envelope, signature cards, hand lens, cover slips, microscope slides, wooden sticks, red litmus paper, tweezers, toothpicks, A and B hema blood tag, Rh hema blood tag, mounting media, anti-A blood simulated, anti-B blood simulated, anti-Rh blood simulated, type B simulated blood, type A simulated blood, type O simulated blood, type AB simulated blood, instructor manual, student manuals, MSDS, student data charts, special needs materials



Cat. No.	Description	Price
S06743	Robbery at Anytown Mall Kit	226.00/Ea

Lyle and Louise: An Identity Crisis™ 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.

- Students pour agarose gels, load DNA, run the gel and analyze results
- Gels use nontoxic BlueVis™ buffer/stain solution formulated by Vandalia Science Education
- Class size: six groups of up to five students per group
- 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

Includes:

Six pre-melted agarose gels, one BlueVis staining solution, two BlueVis gel buffers, six sets of DNA, six InstaStain™ Methylene Blue sheets and fully illustrated teacher's manual with technique background

Requires:

Gel electrophoresis apparatus with power supply, microwave, glass bottle (>1L capacity), 10µL fixed volume pipetter with tips, 5mL serological pipet or 10mL graduated cylinder, distilled water, lab gloves



Cat. No.	Description	Price
S94583	DNA Typing Kit	179.00/Ea

Whose DNA Was Left Behind? Experiment Kit

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

Introduces the basics of DNA fingerprinting and agarose gel electrophoresis.

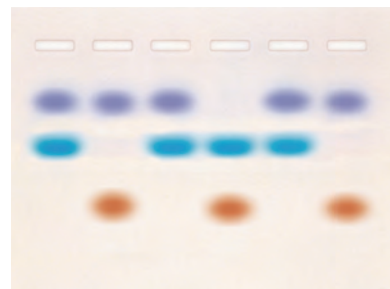
- Introductory-level exercise with hands-on experimentation
- Illustrates how DNA sequences can be isolated in trace evidence such as blood cells or hair
- Dye simulations function as DNA samples for analysis
- Class size: 10 groups

Includes:

Instructions, Ready-to-Load QuickStrip™ Dye Samples, UltraSpec-Agarose™, Electrophoresis Buffer (50X), Practice Gel Loading Solution, Disposable Pipets

Requires:

Electrophoresis apparatus, DC power source, microwave, hotplate or burner, beakers (250mL), beaker tongs or hot gloves, distilled water, balance



Ordering Information:

Results must be analyzed upon completion and cannot be stored overnight.

Cat. No.	Description	Price
S94591	Whose DNA Was Left Behind? Kit	72.00/Ea

Lyle and Louise: Strands of Evidence™ 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 recently 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

Includes:

Hair and fiber collections from crime scenes, hair collections from suspects and victims, six bottles of mounting media, collection record sheets, microscope slides with coverslips, teaching manual

Requires:

Light-transmitting microscope and tweezers



Cat. No.	Description	Price
S94586	Strands of Evidence™ Hair and Fiber Analysis Kit	145.00/Ea

Kemtec™ Dusting for Fingerprints Kit

Kemtec™ Dusting for Fingerprints 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, and develop prints from light, dark, smooth, textured, porous, and non-porous plastics, metals, wood, and vinyl surfaces.
- Students use what they have learned to analyze and compare the minutia 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.	Description	Price
S27539	Dusting for Fingerprints Kit	303.00/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 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.

Includes:

- Four simulated blood samples
- One bottle each anti-A, anti-B and anti-Rh serum
- 40 blood typing trays



Cat. No.	Description	Price
S96790	Simulated Blood Typing Kit	51.25/Ea
S96790R	Simulated Blood Typing Refill	25.25/Ea

Finger Print Classification STEM Kit

Finger Print Classification STEM 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

⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer.



Cat. No.	Description	Price
S29559*	Finger Print Classification STEM Kit	59.75/Ea

Kemtec™ Dustless Fingerprints Kit

Kemtec™ 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
- Grades 7-10

⚠️ ALERTS:

Warning: Cyanoacrylate fuming requires a chemical fume hood



Cat. No.	Description	Price
S30807	Dustless Fingerprints Kit	129.00/Ea



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* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

United Scientific™ 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.



Includes:

- Materials for three detailed activities (with model and inquiry investigational paths – a total of four investigational activities), which can accommodate up to 40 students
- DVD with PDF teacher and student guides
- Structured, guided and open investigations at introductory, intermediate and advanced levels

Requires:

Additional household materials for independent investigations

Cat. No.	Description	Price
S07360	Ink Chromatography and Forensics STEM Kit	76.00/Ea

Blood Typing Kits with Simulated Blood

Determine the ABO or ABO/Rh blood type of four unknown samples.

Use hands-on activities to understand the nature and importance of antigen-antibody reactions.

ORDERING INFORMATION:

Kit refills do not include blood typing trays



Cat. No.	Description	Price
S96793	Simulated ABO Blood Type Kit	43.00/Ea
S96792	Simulated ABO/RH Blood Type Kit	51.25/Ea
S96792R	ABO/RH Kitt Refill	32.25/Ea

- 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.

Includes:

- Four simulated blood samples
- One bottle each of simulated anti-A and anti-B serum
- 40 blood typing trays
- ABO/Rh kit also includes one bottle of simulated anti-Rh serum

Genetics of Blood Types Using Simulated Blood Kit

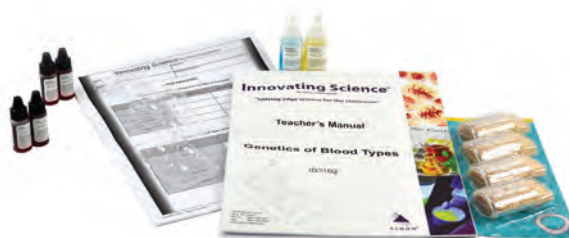
Learn how genetics determine blood type and possible inheritance patterns.

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.

- Kit contains materials for 10 groups
- Uses only simulated blood. These activities do not use real blood.

Includes:

- Four simulated blood samples
- One bottle each anti-A and anti-B serum
- 40 blood typing trays



Cat. No.	Description	Price
S96791R	Blood Typing Genetics Refill	26.25/Ea
S96791	Blood Typing Genetics Kit	48.50/Ea

Blood Spatter Kits

For crime scene investigation and criminal identification based on bloodstains.

Simulated Blood Spatter Kit

- Not corn syrup based
- Will dry on material allowing students to utilize the dried blood on objects for exams or other lab measurements.
- Bloodstain pattern analysis helps in identification of suspect/victim
- 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
- Teacher's manual and student study guide copy-masters included
- Contains material for 15 groups of students
- Not regulated by DOT



Includes:

- 15 bottles of simulated spatter blood, 25mL dropper bottle
- One bottle simulated spatter blood, 200mL
- 100 small index cards, 3 x 5 in.
- 100 large index cards, 5 x 8 in.
- Six rulers
- Three protractors
- Three clipboards
- Three syringes, 3 cc
- 30 tongue depressors
- Three toothbrushes
- 15 acetate sheets
- 15 cloth squares
- Not corn syrup based and will dry on material allowing
- S29560 is simulated blood spatter only, in a bottle.

Cat. No.	Description	Price
S12833	Blood Spatter Kit	142.00/Ea
S29560	Blood Spatter Bottle	55.00/Ea

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 times, 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 of this nature is sent to the crime lab for identification.



- Activity includes a Teachers Manual and Student Guide and Analysis copymasters
- 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
- For 5 groups

⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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WARNING: This product can expose you to chemicals including Respirable Crystalline Silica, which is known to the State of California to cause cancer.

Cat. No.	Description	Price
S40748*	Small Group Learning: Forensic Chemistry of Unknown Substances	28.25/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Lyle and Louise: Nature's Witness™ Forensic Entomology

Learn how forensic entomologists use maggots to determine the post-mortem 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 post-mortem interval for both decedents
- Class size: six groups of up to five students per group

Includes:

Six life stages of Species A (*Lucilia sericata*), six life stages of Species B (*Bercaea haemorrhoidalis*), six evidence collections, fully illustrated teacher's manual with technique background

Requires: Dissection microscope and tweezers

Cat. No.	Description	Price
S94587	Forensic Entomology Kit	232.00/Ea

Physical Properties of Glass

See how forensic scientists use the chemical and physical properties of glass to discover evidence.



Police and crime scene investigators must use all available tools and evidence, working backwards to create the most likely scenario as to what might have occurred. Different types of evidence provide different pieces to the puzzle.

Includes:

Teacher's manual and student guide, analysis copy-masters, one bottle of borosilicate glass beads, one bottle of flint glass beads, one bottle of soda-lime glass beads, one set of refractive index solutions, 15 magnifiers. Enough materials for 15 tests.

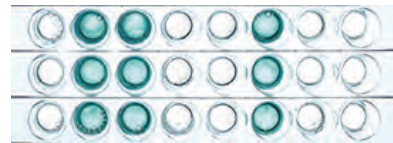
Requires: Balance, graduated cylinders (10mL), test tubes

Cat. No.	Description	Price
S96641	Physical Properties of Glass Kit	129.00/Ea

Forensic Toxicology Experiment Kit

Student's educational kit to analyze crime scene samples for presence of drugs.

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



Cat. No.	Description	Price
S42879	Forensic Toxicology Experiment Kit	140.00/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-Monoacetylmorphine 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

⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Phenolphthalein/Methanol/Methyl isobutyl ketone, which are known to the State of California to cause cancer, birth defects and reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Cat. No.	Description	Price
S40770*	Forensic Toxicology	111.00/Ea

Forensic Drug Testing: A Simulated Immunoassay



In this activity, students will perform a simulated immunoassay test on several urine samples for the detection of 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
- For 15 groups

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Cat. No.	Description	Price
S40778	Forensic Drug Testing: A Simulated Immunoassay	44.25/Ea

Forensic Analysis of Narcotics

Forensic Analysis of Narcotics teaches students about Forensic chemistry by analyzing and identifying unknown substances. They 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 along with a series of known controls
- By comparing the test results of the unknown with those of the controls, the most likely identity of the unknown will be determined
- Kit contains enough materials for 15 groups
- Teacher's Manual and Student Study Guide copy masters are included

DISCLAIMERS:

WARNING: This product can expose you to chemicals including Phenolphthalein/Methanol/Methyl Isobutyl Ketone, which are known to the State of California to cause cancer and reproductive harm. For more information go to www.P65Warnings.ca.gov.

Cat. No.	Description	Price
S27130***	Forensic Analysis of Narcotics	89.00/Ea

	* California - WARNING: Cancer www.P65Warnings.ca.gov
	** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
	*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Looking for anatomy and physiology supplies?

Use this curated list of products to restock your anatomy and physiology classroom, and visit [fisheredu.com](https://www.fisheredu.com) to find even more science education products.



Description	Cat. No.	Quantity
Preserved Specimens		
Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed	S28069	Each
Carolina Formalin Preserved Sheep Brain, Dura Mater Intact	S28065	Each
Carolina Formalin Preserved Sheep Heart, Plain	S28067	Each
Bio-Fresh™ Frogs	S1635S	10/Pk
Carolina Formalin Cats	S37653ND	Each
Dissection Supplies		
United Scientific Supplies Large Dissecting Tray with Wax	S80769	Each
United Scientific Supplies Plastic Lab Trays	S04545	10/Pk
Science First Dissection Pan	S81136	Each
Eisco™ Dissection Tray	S14000	Each
Eisco™ Economy 7 Piece Dissecting Set	S14004	Each
Eisco™ 7 Piece Dissecting Set	S14005	Each
DR Instruments Mall Probe	S08106	Each
Eisco™ Disposable Forceps	S13946	12/Pk
DR Instruments Specimen Dissecting Forceps	S08101	Each
Models		
3B Scientific™ Muscle Torso with Head, Includes 3B Smart Anatomy	S17186	Each
3B Scientific Muscular Anatomy Model, 45-Part Master Series, Includes 3B Smart Anatomy	S17168	Each
3B Scientific Muscular Leg, Includes 3B Smart Anatomy	S171381	Each
3B Scientific Muscular Anatomy Model, 23-Part Master Series, Includes 3B Smart Anatomy	S17168A	Each
3B Scientific Muscular Arm, Includes 3B Smart Anatomy	S17136	Each
Skeleton		
3B Scientific Adult Human Skeleton, Includes 3B Smart Anatomy	S17133B	Each
3B Scientific Deluxe Human Skeleton, Includes 3B Smart Anatomy	S171563	Each
Eisco™ Human Articulated Painted Musculature Skeleton Model, Hanging	S13522	Each
3B Scientific Disarticulated Human Skeleton, Includes 3B Smart Anatomy	S17131B	Each
Eisco™ Human Skeleton Model, Rod Mount	S09580	Each
Cleaning Supplies		
Fisherbrand™ Sparkleen™ 1 Detergent	S701101	Each
Glassware Drying Rack	S47855	Each
Lab Drying/Sterilizing Ovens	S50172	Each
Innovating Science™ Laboratory Cleaner	S20715	32 oz.
Fisherbrand™ High Impact Polystyrene (HIPS) Drying Rack and Accessory	S29129	Each

Please see Safety & Security Catalog for PPE and infection mitigation products.

Veterinary Technology

Animal X-Rays

Animal X-Rays printed on clear, heavy-duty plastic

- Study similarities and differences between animals
- Examine real x-rays
- Mammals, reptiles, fish, amphibians and birds

Includes: 14 x-rays, 14 matching picture cards, up to 8 x 10 in. (10 x 25 cm) and teacher guide



3B Scientific™ Dog Foot and Leg Skeleton Specimen

For comparative anatomy and other studies.

- Domestic dog skeleton



Cat. No.	Description	Price
S40797	Animal X-Rays	27.50/Ea

Cat. No.	Description	Price
S06789	Dog Foot and Leg Skeleton	248.00/Ea

Veterinary Student Dissection Kits

For first year veterinary students.

Contains instruments required for anatomy class:

- Scalpel handle No. 4
- No. 20 and No. 22 scalpel blades (10 pieces each)
- Tissue forceps with 2 x 3 teeth
- Addison forceps with 1 x 2 teeth
- Thumb Dressing Forceps, 5.5 in. (140mm)
- Hemostatic forceps (Kelly or Criel)
- Dissection scissors 6 in. (152mm), Sharp/Sharp (Two sharp point blades)
- Iris Scissors, 4.5 in. (114.3mm)
- Huber Probe with one end blunt and bent, and other end chissel
- Dissection Kit case to hold all tools

Deluxe Kit Includes:

- Addison Brown Forceps, 4.5 in. (114.3mm)
- 1 x 2 teeth tissue forceps, 5.5 in. (140mm)
- Dissection Scissor, 5.5 in. (140mm), sharp/blunt
- Kelly forceps, 5 in. (127mm), curved
- Huber Probe
- Scalpel handle No. 4
- Blade No. 22, 10 pieces
- Zippered leatherette case for ten instruments



Cat. No.	Description	Price
S07893	Veterinary Student Dissection Kit	30.25/Ea
S07892	Deluxe Veterinary Student Dissection Kit	19.50/Ea

VetPak-G™ Dissection Instruments Pack

An all-in-one kit for veterinary students

- Addison brown forceps 4.5in.
- Dissection scissor, 5.5in, bandage
- Kelly forceps 5in, curved
- Mayo hager forceps, 5.5in.
- Dissecting stitching scissors, 4.5in.
- Reflex hammer
- Pen light
- Thermometer
- Instruments holster with waist belt
- Strong carrying case



Cat. No.	Description	Price
S08087	VetPak-G™ Dissection Instruments Pack	41.50/Ea



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Anatomy, Physiology and Medical Technology

Instruments & Kits

Please see Safety & Security Catalog
for First Aid supplies.

Diagnostic Pen Light

For examining eyes.

- Reliable robust construction
- Bright illumination
- Compact size
- 5 in. length

INCLUDES:

2 AAA batteries



Cat. No.	Description	Price
S20671	Diagnostic Pen Light	7.60/Ea

Bone Shears

- With coil spring
- 5.5 in. long
- Stainless steel with black oxide coating



Cat. No.	Description	Price
S72153	Bone Shears	14.75/Ea

Curved Hemostatic Forceps

Feature offset tips for accessing hard- to-reach areas during dissection



Cat. No.	Description	Price
S72120	Curved Hemostatic Forceps	5.40/Ea

Straight Hemostatic Forceps

Straight forceps feature stainless steel precision points



Cat. No.	Description	Price
S72119	Straight Hemostatic Forceps	5.40/Ea

Reflex Hammer

A proper tool for testing the integrity of the patellar tendon and other reflexes



Cat. No.	Description	Price
S72118	Reflex Hammer	6.20/Ea

3B Scientific™ Baseline™ Fingertip Pulse Oximeter

Measures and displays real-time pulse and SpO₂ level

- Compact
- Lightweight
- Large, easy-to-read display
- Automatically shuts off when not in use
- Comes with wrist lanyard



Cat. No.	Description	Price
S20764	Baseline Fingertip Pulse Oximeter	57.50/Ea

Eisco™ Dial Type Blood Pressure Apparatus

Dial type apparatus with hook-and-loop type fastening cuff.

- High quality inflation rubber bulb
- Includes carrying case



Cat. No.	Description	Price
S23638	Dial Type Blood Pressure Apparatus	29.00/Ea

United Scientific™ Stethoscopes

Listen to vital signs.

- Ideal for the classroom, especially in the study of respiration and circulation
- Teaching stethoscope has 3.8cm Bowles chestpiece and two sets of binaurals joined together so the teacher and student can listen simultaneously
- Bowles-type stethoscope has adjustable, chrome-plated binaurals and PVC Y tubing



⚠ ALERTS:
This item is intended for educational purposes only.

Cat. No.	Description	Price
S11008	Dual Earpiece-Teaching Stethoscope	38.75/Ea
S99444	Bowles Type Stethoscope	11.75/Ea

Stethoscopes Set

Used to monitor heart rate or measure blood pressure for detailed examination



- Set of four stethoscopes for hands-on learning
- Multiple colors

Cat. No.	Description	Price
S81689	Stethoscopes Set	20.00/Ea

Med Student Sphygmomanometer Kit

With MDF™ dual-head stethoscope.

Kit contains:

Aneroid Sphygmomanometer:

- Standard size cuff made of nylon with index and range markings for proper positioning
- Black inflation bulb and chrome plated inflation valve with traditional thumb-screw air control.
- Equipped with no-pin stop manometer gauge graduated to 300mmHg



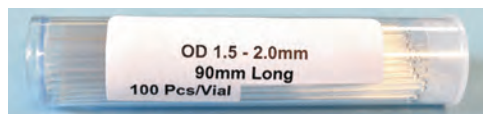
MDF Dual Head Stethoscope:

- Bowles and deep cone-shaped Bell with a full-rotation acoustic valve stem and Headset Spring.
- Black zippered carrying case

Cat. No.	Description	Price
S20676	Sphygmomanometer Kit	55.75/Ea

Capillary Tubes

Indispensable for calculating blood clotting time or determining melting points.



- Made of alkali-free, corrosion-resistant glass
- Extra-thin walls break easily and cleanly
- Good for routine melting point determinations Capacity: 30µL One sealed end
- 90mm melting-point capillary
- Sold 100 tubes per vial

Cat. No.	Description	Price
S37609E	90mm Melting-point Capillary Tubes	11.25/Ea

Glucose Test Strips

Used in biological courses for detection of glucose concentrations.

- Used in osmosis and diffusion experiments, where one is looking for differences in the diffusion of starch when compared to glucose, in a semi permeable membrane system
- Concentration ranges: 0, 100, 300, 1000 and 3000mg/dL
- 100 strips per pack



Cat. No.	Description	Price
S80218	Glucose Test Strips	27.25/Ea

Lab-Aids™ Simulated Urinalysis Kit

Perform diagnostic lab tests. Apply analyze as a diagnostic tool.



With this kit, students analyze simulated urine samples to understand the procedures used in urinalysis and the potential applicability of urinalysis as a diagnostic tool. By adding different reagents to urine samples, students observe how each reacts with substances in the urine, providing useful evidence for identifying different substances. Students test simulated urine samples for pH, density, glucose, phosphates and chlorides. Enough reagents are provided for 30 students. A hot plate, Bunsen burner and test tubes are necessary, but not included.

INCLUDES:

- 15 Lab-Aids Chemplates™ with spatula
- Three bottles each of simulated urine I, II, III, IV and V
- Three bottles of dilute acetic acid
- Three bottles of dilute silver nitrate
- Three bottles of Benedict's solution
- Five density tubes; one vial of universal indicator paper
- 15 pH color charts
- 30 student worksheets and guides
- Instruction manual with Material Safety Data Sheets

Cat. No.	Description	Price
S19552	Simulated Urinalysis Kit #4	194.00/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 calcium
- Examine samples microscopically to determine if any crystals are present in the sample



Refill Kit includes 250mL samples of:

- Patient X simulated urine
- Patient Y simulated urine
- Patient Z simulated urine
- Control simulated urine

ORDERING INFORMATION: Materials for 15 groups.

INCLUDES: Teacher's guide, student study guide copymasters, kit with simulated urine samples (250mL each of patient X, patient Y, patient Z, control), Benedict's reagent (25mL), biuret solution (25mL), Sulkowitch's reagent (25mL), pH test strips, microscope slides, coverslips, graduated plastic cups (30mL), graduated pipets (1mL)

REQUIRES: Hot water bath, glass test tubes and compound microscopes (4X/10X/40X)

COMPLIANCE: This package conforms to 49CFR 173.4

Cat. No.	Description	Price
S98668A*	Urinalysis Using Stimulated Urine	71.00/Ea
S37732	Refill Kit	32.25/Ea

Artificial Urine

Simulated urine

- Quantity: 500mL
- To identify variety of physiological conditions with urine test strips; Exception: **S07903** (Artificial Urine with Ketone) is not designed for use with test strips.



Cat. No.	Description	Price
S07900	Artificial urine with Vitamin C	22.50/Ea
S07901	Artificial urine with Phosphates	22.50/Ea
S07902	Artificial urine with Albumin	22.50/Ea
S07903	Artificial urine with Ketone	22.50/Ea
S07904	Artificial urine with Glucose	22.50/Ea
S07905	Artificial urine Set of 4 (Control, w/phosphates, albumin, glucose)	91.00/Ea
S07906	Artificial urine Control	14.75/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

⚠ ALERTS:

WARNING: This product can expose you to chemicals including Benzidine-based dyes, which is known to the State of California to cause cancer.

Cat. No.	Description	Price
S98651***	Kidney and Blood Filtration Kit	60.25/Ea

Kemtec™ Tallquist Hemoglobin Scale

Allows quick assessment of patient's 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



REQUIRES: Lancets if blood is to be drawn

Cat. No.	Description	Price
S06452	Tallquist Hemoglobin Scale Kit	31.00/Ea

Lab-Aids™ Blood Clotting Experiment Kit

Learn about coagulation rates and bleeding times, use microscope to observe fibrin threads in clotting and observe the effects of calcium in blood clotting.

Students will examine their own blood to better understand the clotting process. Students will discover their own clotting times studying coagulation rates and bleeding times, observe the formation of fibrin threads in clotting and study the effects of calcium on blood clotting. Individualized worksheets and sterile components make this a highly motivational lab activity. Microscopes are needed.

REQUIRES: Microscopes

Includes:

- 50 Microscope slides
- 50 Capillary tubes
- 50 Sterile, disposable blood lancets
- 50 Presaturated alcohol pads
- 50 Red mixing spatulas
- 50 Student worksheets and guides
- Instruction manual with MSDS
- Package of absorbent paper



- Drop-controlled bottle of calcium carbonate solution
- Drop-controlled bottle of saline-citrate solution

Cat. No.	Description	Price
S19332	Blood Clotting Experiment Kit for 50 Students	114.00/Ea

Lab-Aids™ Rh Blood-Typing Kit

Determine Rh factor, understand Rh mechanisms and relationships to transfusion and genetics and observe tissue compatibility.

The significance of the Rh factor becomes clear as students type their own blood to determine if they are Rh Positive or Rh Negative. In the first part of this activity, students determine their own Rh blood type. This is done by typing their blood and observing tissue incompatibility. Next, they mix a blood sample with Rh serum. Finally, the students observe the resulting film for agglutination. If agglutination occurs, the red cells possess the Rh factor and the individual is considered to be Rh+. If agglutination doesn't occur, they are Rh-. No warming of the serum or light box is necessary. This interesting kit includes background information on the discovery of the Rh factor, the physiological basis for Rh incompatibility, and the procedure used for correcting this among newborns. The exclusive Slide Guide gives each student a permanent notebook record of the experiment. This kit contains enough material for 32 student tests.



INCLUDES:

- Vial of anti-Rh serum
- 50 Mixing spatulas
- 50 Presaturated alcohol pads
- 50 Sterile disposable blood lancets
- 50 Lab-Aids Slide Guides™
- Complete instruction manual

Cat. No.	Description	Price
S67357	Rh Blood Typing Kit for 32 Students	94.00/Ea

Kemtec™ Blood Typing with Saliva Kit

Students use their own saliva, from which antigen secretors will be able to determine their ABO blood type.

- 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

INCLUDES:

- Return cards for type A, B, O red blood cells and H Lectin
- Anti-A Serum
- Anti-B Serum
- MSDS
- Instructor's manual
- Student data sheet

REQUIRES:

Centrifuge or prolonged settling



Materials must ship second 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.

Cat. No.	Description	Price
S25080	Blood Typing with Saliva Kit	207.00/Ea

Kemtec™ 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 necessity of drawing blood samples from students. Kit should be ordered two weeks before needed.

- Contains both red blood cells and 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 under refrigeration
- Grades 9-14
- Class size: 36 students

INCLUDES:

Anti-A Serum, Anti-B Serum, Anti-Rh Serum, A Blood Cells, B Blood Cells, O Blood Cells, droppers, instructor manual, student data sheets, MSDS



Cat. No.	Description	Price
S17020	ABO Blood Typing Kit (with Red Blood Cells)	373.00/Ea

Lab-Aids™ Basic Blood Typing Kit

Lab-Aids™ blood typing kits are designed for educational purposes only. These kits are not intended for clinical or diagnostic use. All Sera have been tested for HBs Ag and HTLV-III (AIDS). Students sample and determine their own blood type, observe tissue incompatibility and agglutination, understand the four basic human blood types and experience collecting and comparing data.

Lab-Aids™ Basic Blood Typing Kit provides foundational activities that introduce students to the study of blood. Students first draw samples of their own blood to: determine their own blood group and observe tissue incompatibility. Students will then type themselves using the agglutination method which enables them to better understand the four basic blood groups.

Besides their personal involvement in the experiment, students will receive valuable experience in collecting and comparing data. Individual color coded sterile components help to simplify the procedure and guarantee results. The Lab-Aids™ Slide Guide eliminates the need for glass slides and can be placed in the student's notebook as a visual record of the lab activity.



Cat. No.	Description	Price
S67356	Basic Blood Typing Kit for 32 Students	135.00/Ea

Lab-Aids™ ABO-Rh Combination Blood Typing Kit

Provides information on several different subjects related to blood typing.

This popular Lab-Aids product combines all the features of Basic Blood Typing and Rh Blood Typing kits with a specially designed Slide Guide™. Provides information on the history of the blood factors, hereditary determination, individual typing techniques, comparisons of blood types in world populations, and blood typing birth problems.

- Determine ABO blood type and Rh factor
- Correlate agglutination to antigen production
- Observe and study Rh mechanisms and relationships to transfusion and genetics
- Classroom size: 32 students

INCLUDES:

- 32 Combi-Slide guide
- One of each drop-controlled bottle blood-typing serum, Type Anti-A, Type Anti-B and Type Anti-Rh
- 32 spatulas for Anti-A serum (blue)
- 32 spatulas for Anti-B serum (yellow)
- 32 spatulas for Anti-Rh serum (red)
- 32 pre-saturated alcohol pads
- 32 sterile disposable blood lancets
- 32 student worksheets and guides
- Instruction manual with MSDS

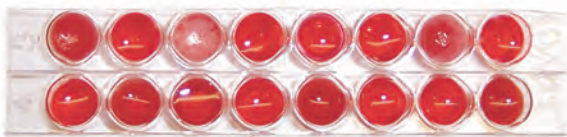


Note: All sera have been tested for HBs Ag and HTLV-III (AIDS).

Cat. No.	Description	Price
S67359	ABO-Rh Combination Blood Typing Kit	151.00/Ea

Blood Typing Kit

Learn about determining blood types.



- Blood typing is essential for blood transfusion and other medical conditions.
- Overview of blood typing is discussed
- Hands-on determination of simple simulation reactions for blood ABO typing
- Known and control samples provided 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.

INCLUDES:

instructions, control ABO simulated blood samples, unknown simulated blood samples, transfer pipets, microtiter plate

Cat. No.	Description	Price
S94671	Blood Typing Kit	72.00/Ea

Lab-Aids™ Blood Smear Kit

Observe and identify different cell types in student's own blood, prepare smear and apply Wright's stain and develop microscope skills.



Lab-Aids™ blood smear three-step experiment provides students with a clear understanding of lab techniques and an opportunity for self discovery. Students draw samples of their own blood with individualized sterile lancets and prepare smears by applying Wright's stain. Using a microscope, they examine the smears to identify different cell types (erythrocytes, polymorphonuclears, eosinophiles, basophiles, lymphocytes and platelets). This experiment can be safely conducted in a single class period. Microscopes are needed. Accommodates 2 classes, each with 25 groups of 2 students.

REQUIRES:

Microscopes

Cat. No.	Description	Price
S19330	Blood Smear Kit	68.00/Ea

ABO/Rh Blood Typing Tray

Contain depression wells to perform ABO and Rh blood-typing.



- Made of styrene
- Washable and reusable
- Quantity: 100/Pk.

⚠ **ALERTS: DOT: Non regulated**

Cat. No.	Description	Price
S37734	ABO/Rh Blood Typing Tray	41.25/Ea

Kemtec™ ABO Blood Simutype Kit

Use totally 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 subjects. But the concern over AIDS, plus the general trend away from "invasive" laboratory work, has caused many schools to drift away from including this vital exercise. This kit provides a solution to all of these problems.

- Students use genetic information to answer paternity questions, determine genotypes and phenotypes of blood donors, and determine possible donors and recipients for blood transfusions
- Includes convenient self-adhesive Hema-Tags™ typing templates
- Ideal for biology, immunology, genetics, or forensics
- Grades 7-12
- Class size: 24 students (with multiple reuses)

INCLUDES:

- Microscope slides
- Simulated Anti-A antiserum
- Simulated Anti-B antiserum
- Simulated blood samples from four individuals
- 50 Hema-tags
- Green and yellow toothpicks
- Instructor's manual
- Reproducible student instructions and data sheet
- SDS
- Materials for up to 225 individual tests

Cat. No.	Description	Price
S19316	ABO Blood Simutype Kit	137.00/Ea

Kemtec™ Anti-A, Anti-B, Serum Set, Lyophilized, 3-300L

Lyophilized sera allow prolonged, stable storage and shelf life.



Sera are tested for HbsAg and HTLV-III (AIDS), however standard laboratory practices should be used when handling and all biological products should be treated as if capable of transmitting disease. Refrigerate after reconstituting to extend shelf life.

Kit Contains:

- Two droppers
- Vials
- Anti-A serum, lyophilized
- Anti-B serum, lyophilized
- Each set reconstitutes to 5mL Anti-A serum and 5 ml Anti-B serum with addition of sterile or distilled water
- For grades 9 to 14

Cat. No.	Description	Price
S06449	Anti A, Anti B, Serum Set Lyophilized , 3-300L	107.00/Ea

Kemtec™ Anti-Rh, Anti-D Serum Set (5mL)

Highly specific monoclonal antiserum to Rh factor tested for HbsAg and HTLV-III (AIDS).



Standard laboratory practices should be used and all biological products should be treated as if capable of transmitting disease. Product is perishable and requires special shipping. Refrigerate to prolong shelf life.

Kit Contains:

- Anti-D serum
- Approximately 36 tests
- Dropper
- For grades 9 to 14

Cat. No.	Description	Price
S06448	Anti-Rh, Anti-D Serum Set (5 mL)	52.00/Ea

Kemtec™ Anti-Rh, Anti-D Serum, Lyophilized

Lyophilized sera allow prolonged, stable storage and shelf life.



Sera are tested for HbsAg and HTLV-III (AIDS), however standard laboratory practices should be used when handling and all biological products should be treated as if capable of transmitting disease. Refrigerate after reconstituting to extend shelf life.

Kit Contains:

- Dropper
- Vial
- Anti-D (Rh) serum, lyophilized
- Each vial reconstitutes to 5mL Anti-Rh serum with addition of sterile or distilled water
- For grades 9 to 14

Cat. No.	Description	Price
S06450	Anti Rh, Anti D Serum, Lyophilized	70.75/Ea

Kemtec™ Anti A, Anti B Serum Set (5mL)

Highly specific monoclonal antisera tested for HbsAg and HTLV-III (AIDS).



Standard laboratory practices should be used and all biological products should be treated as if capable of transmitting disease. Product is perishable and requires special shipping. Refrigerate for prolonged shelf life.

Kit Contains:

- Two droppers
- Approximately 36 tests
- Anti-A serum, 5mL
- For grades 9 to 14
- Anti-B serum, 5mL

Cat. No.	Description	Price
S06447	Anti-A, Anti-B Serum Set	62.00/Ea

Blood Typing Freeze-Dried 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 5mL 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.	Description	Price
S07802	Anti-A and anti-B	35.75/Ea
S07803	Type A, B and Rh	72.00/Ea
S07804	Anti-Rh	36.00/Ea

Determination of Cholesterol Using Simulated Blood Kit

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 tested again, 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.	Description	Price
S27124	Determination of Cholesterol Kit	100.00/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.

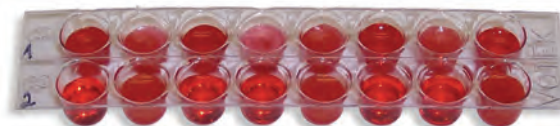
- White blood cells, or leukocytes, only account for approximately 1% of the total number of cells found in blood
- They are still a critical part of the immune system, protecting the body from foreign invaders such as bacteria and viruses
- White blood cells counts are often performed as part of a medical diagnosis to determine if the level of white blood cells in a patient's blood is within, or outside of the normal range
- 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.	Description	Price
S27125	Diagnosis of White Blood Cell Counts Kit	38.75/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.

INCLUDES: instructions, microtiter plates, cancer cell markers, normal cell markers, transfer pipets, buffer

REQUIRES: Distilled water

Cat. No.	Description	Price
S94672	Blood-Based Cancer Diagnostics	113.00/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.

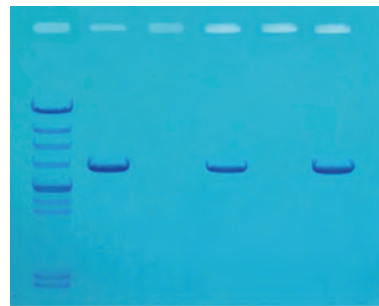
- Examine simulated PCR products from several feed mills
- Determine any possible violations of the 1997 ban
- Does not contain human DNA

ORDERING INFORMATION:

Contains materials for eight gels with InstaStain™ Methylene Blue.

INCLUDES:

Instructions, Ready-to-Load QuickStrip™ DNA Samples, UltraSpec-Agarose™, Electrophoresis Buffer (50X), 10X Gel Loading Solution, FlashBlue™ DNA Stain, InstaStain™ Blue Cards, & Disposable Pipets



REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Balance; Microwave, hotplate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats for gel destaining; DNA visualization system (white light); Distilled or deionized water

Cat. No.	Description	Price
S95607	Detection of Mad Cow Disease	117.00/Ea

Lab-Aids™ AIDS and STD Transmission and Control Kit

Simulate disease transmission and methods of prevention and study effectiveness of latex barriers in the transmission of disease.

This very relevant hands-on activity illustrates how easily sexually transmitted diseases such as Hepatitis B and AIDS can spread through teenage populations. Students test results of their various exchanges. They are able to identify the contact that infected them or determine if they are perhaps the first case or 'Patient Zero'. Students also explore the permeability and effectiveness of latex barriers in the prevention of sexually transmitted diseases.

Refill kit includes:

- 30 bottles, labeled "body fluids" no. 1 to 30
- 3 drop control bottles of "aids testing solution"
- 3 drop control bottles of "hepatitis b testing solution"
- 1 vial of fragrance 1 (lemon)
- 1 vial of fragrance 2 (vanilla)
- 1 vial of fragrance 3 (almond)
- 1 Vial of Fragrance 4 (peppermint)
- 1 Vial of Fragrance 5 (banana)
- 1 Vial of Fragrance 6 (control)
- 1 Balloons, latex, 144/pkg
- 1 Petroleum jelly, tube



Cat. No.	Description	Price
S1943232	AIDS and STD Transmission and Control Kit	291.00/Ea
S94542	Refill Kit	183.00/Ea

Kemtec™ AIDS Simutest Kit

Students run simulated ELISA tests for AIDS.

- Students run eight patient samples in simulated ELISA to determine which patient(s) may have contracted the HIV virus
- Includes simulated patient serums, conjugate, chromagen, and reusable treated ELISA microtiter plates
- Totally safe for student use as it contains no blood serum or infectious diseases
- Students experience the world of biotechnology and learn about HIV virus within this one hour lab investigation
- For grades 11 to 14
- Class size: 24 students

INCLUDES:

Serum samples A - H, plastic pipets, ELISA microtiter plates, antibody conjugate, chromagen, instructor manual, SDS

REQUIRES:

Goggles

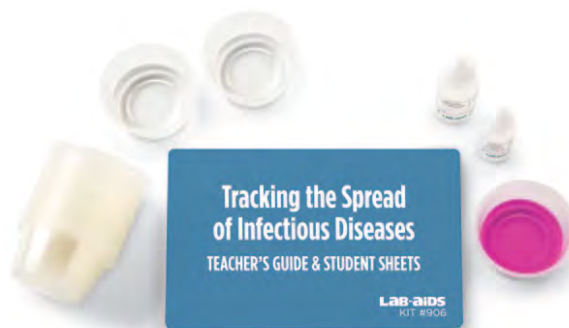


Cat. No.	Description	Price
S06451	AIDS Simutest Kit	355.00/Ea

Lab-Aids™ Tracking the Spread of Infectious Diseases

This activity simulates the transmission of a contagious disease and the steps epidemiologists take to try to determine its source and limit its spread.

Contagious diseases can spread quickly through a population. If an infected individual mingles with healthy individuals, random contact can cause many more to become infected. This activity simulates the transmission of a contagious disease and the steps epidemiologists take to try to determine its source and limit its spread. Two scenarios are provided, one for an infection spreading among humans and another among livestock. If desired, the kit materials can also be used to simulate different ‘trackable’ spreading event scenarios such as an invasive species or an outbreak of food poisoning. This activity also introduces the concept of exponential growth. Accommodates dozens of classes, each with 24 students. Add only cups for larger class sizes. Includes Teacher guide, student sheets, assessment questions and SDS for all chemicals.



INCLUDES:

Teacher's guide; 28 student worksheets and guides; 24 100mL plastic cups; 15mL drop control bottle of 2% sodium carbonate solution; 30mL drop control bottle of “Infection Test Solution”; Transparency: Class Infection History; SDS packet

Cat. No.	Description	Price
S20956	Kit: Tracking the Spread of Infectious Diseases	41.00/Ea

Kemtec™ 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
- Students see genuine improvement in their dental health
- Grades 6-12
- Class size: 24 students

INCLUDES:

Instructor Manual with Reproducible Student Data Sheet, Plastic Cups, Microcentrifuge Tubes, 5mL, Sodium Hydroxide, Glucose, Glucose Test Strips, Oxidizing Dye, Color Charts

REQUIRES: 24 caramels

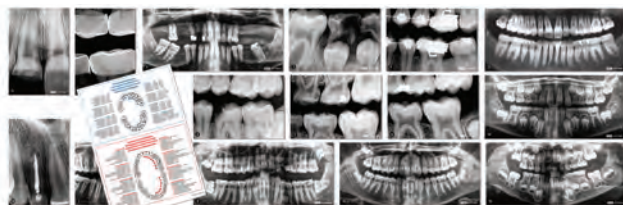


Cat. No.	Description	Price
S25001	Dental Cavity Potential Kit	247.00/Ea

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.	Description	Price
S40793	Dental X-Rays	23.25/Ea

True to Life Human X-Rays

Reproduce the entire body of a young adult, 5 ft. (1.5 m) tall

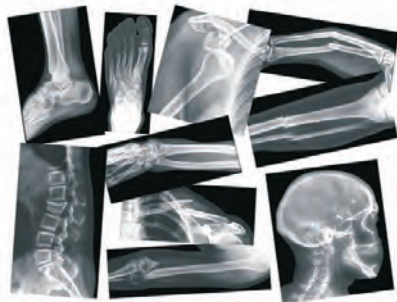
- Life-size human x-rays
- Hold up to a light or use on a light table to see every authentic detail of a real skeleton
- Teacher guide includes reproducible artwork and information on radiography
- Includes: 18 X-rays, reproducible worksheets and guide



Cat. No.	Description	Price
S40786	True to Life Human X-Rays	36.25/Ea

Broken Bones X-Rays

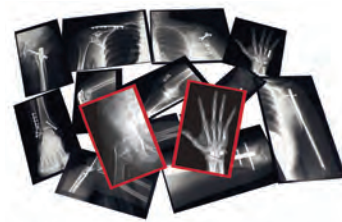
Shows detailed real X-ray look at common breaks to variety of human bones.



Fixed Bone X-Rays

Ideal for young learners as well as Secondary Education Science

- Authentic x-ray images
- Shows hardware (plates, screws, nails, pins and wires) used to fix broken bones
- Fourteen added images of fractures on cardstock correspond to the repair x-rays
- Use with a light source to view details as a doctor would
- Includes: 14 x-rays, 14 broken bone images on cardstock up to 7 x 11 in. (19 x 28 cm) and guide

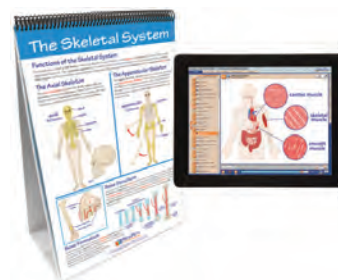
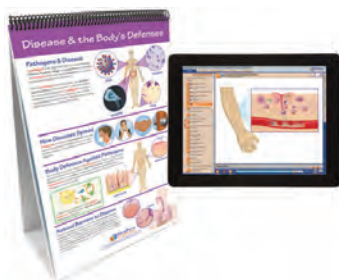


Cat. No.	Description	Price
S12883	Broken Bones X-Rays	35.00/Ea

Cat. No.	Description	Price
S40789	Fixed Bone X-Rays	23.50/Ea

Flip Chart and Online Multimedia Lessons: Human Body

Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key concepts on the human body. Choose from three different concentrations: Fuel & Transportation, Body Systems, and Diseases/Human Defense Systems.



- 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.
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & 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
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Includes a Teacher Guide with copymaster activities and review questions
- Grades 6-10
- **Fuel & Transportation covers:** Food & Nutrients; Types of Nutrients; Digestive System; Process of Digestion; Respiratory System; Lung Disease; Cardiovascular System; Blood & Lymph; and Excretory System
- **Body Systems covers:** Body Organization; Homeostasis; Skeletal System; Joints; Muscular System; Central Nervous System; Peripheral Nervous System; Senses; and Endocrine System
- **Maintaining the Human Body:** Disease & the Body's Defenses; Inflammation; Immune Response; Illness; Immunity/Allergies; Skin; Male/Female Reproductive Systems; Fertilization & Fetal Development; and Systems Working Together

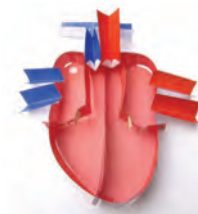
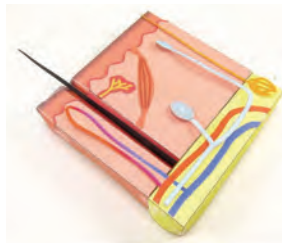
Cat. No.	Description	Price
S81114	Fuel and Transportation Flip Chart/Online Media Lessons	50.00/Ea
S81115	Maintaining the Human Body Flip Chart/Online Media Lessons	50.00/Ea
S81113	Move/Control Flip Chart/Online Media Lessons	50.00/Ea

Human Body 3-D Model Kits

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

NEW

- Gain a critical understanding of complex structures & 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 & Evaluate their understanding of key Scientific concepts
- Grades 6-10



Cat. No.	Description	Price
S81471	Human Brain 3-D Model Kit	37.50/Ea
S81473	Human Eye 3-D Model Kit	37.50/Ea
S81474	Human Heart 3-D Model Kit	37.50/Ea
S81477	Human Lungs 3-D Model Kit	37.50/Ea
S81470	Human Digestive System 3-D Model Kit	37.50/Ea
S81476	Human Liver and Spleen 3-D Model Kit	37.50/Ea
S81478	Human Skin 3-D Model Kit	37.50/Ea
S81475	Human Immune System 3-D Model Kit	50.00/Ea

Anatomy Model 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 (S95867)

- 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 (9.75cm) when assembled

Human Body (S95868)

- 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 (11.4cm) 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 (23.4cm) when assembled

Anatomy Model (S905870)

- 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

ORDERING INFORMATION:

Grades 3+. Display stand included.



Cat. No.	Description	Price
S95867	Brain Anatomy	30.50/Ea
S95868	Human Body	30.50/Ea
S95869	Human Skeleton	30.50/Ea
S95870	Anatomy Set	110.00/Ea

Every original 3B Scientific anatomy model now includes these additional FREE features:

- Free access to the anatomy course 3B Smart Anatomy, hosted inside the award-winning Complete Anatomy app by 3D4Medical
- The 3B Smart Anatomy course includes 23 digital anatomy lectures, 117 different virtual anatomy models and 39 anatomy quizzes to test your knowledge
- FREE warranty upgrade from 3 to 5 years with every product registration

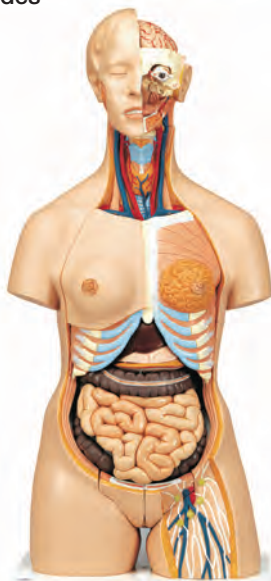
TIP: You will also receive access to a free 3-day trial to all premium features of the Complete Anatomy app when you sign up for your 3B Smart Anatomy course.

To unlock these benefits, simply scan the label located on your model and register online. All 3B Smart Anatomy features are completely free of charge.

3B Scientific™ Deluxe Human Torso Models

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 × 9.84 × 34.25 in. (38 × 25 × 87cm)



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	Deluxe Dual Sex Torso with Opened Back Model	1541.00/Ea

Eisco™ 24-Part Human Torso with Sex Organs

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
- 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
- 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
- L x W x H: 38 x 24 x 89cm (15 x 9.5 x 35 in.)



Cat. No.	Description	Price
S15533	24-Part Human Torso Model with Interchangeable Sex Organs	1037.00/Ea

3B Scientific™ Muscle Torso, Two-Sex, with Pregnancy Insert

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	3512.00/Ea

3B Scientific™ 33-Part Muscular Model

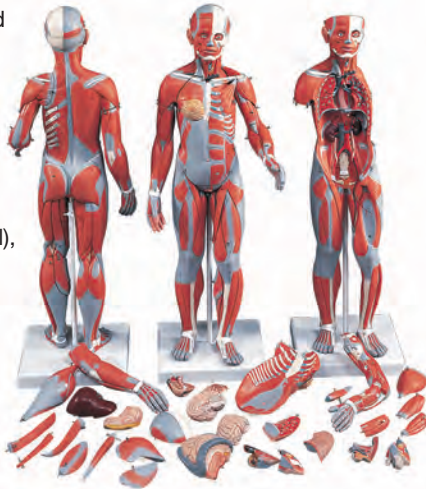
Comprehensive anatomy study — includes 3B SMART ANATOMY!

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. (82.5cm)

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	4181.00/Ea

3B Scientific™ 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. (56.3cm) 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	849.00/Ea

3B Scientific™ 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

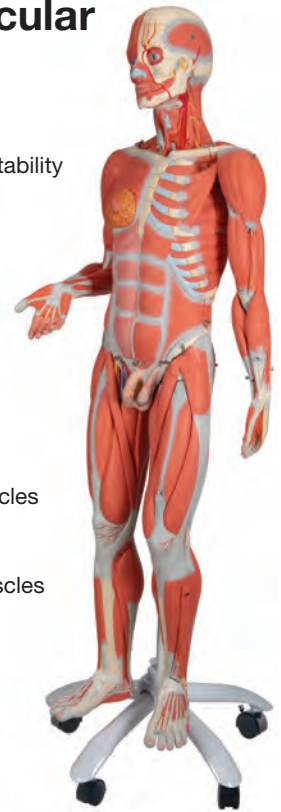
Designed primarily for studies of the musculature since it has no removable internal organs.

- 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	23-Part Muscular Anatomy Model	8856.00/Ea
S17168	45-Part Muscular Anatomy Model	9520.00/Ea

3B Scientific™ 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 process
- Height: 22.75 in. (57.8cm)

INCLUDES: Stand

Cat. No.	Description	Price
S17136	Muscular Arm	730.00/Ea



3B Scientific™ Muscular Leg

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. (76.2cm)

INCLUDES:

Stand



Cat. No.	Description	Price
S171381	Muscular Leg Model	1038.00/Ea

Eisco™ 6-Part Muscular Arm Model

Dissectible muscular arm model for anatomical study — includes 3B SMART ANATOMY!

- Demonstrates six parts including muscles, tendons, blood vessels and nerves of the arm, hand and shoulder
- Five muscles detachable to reveal structure down to bone
- Mounted on base
- Numbered with English Key Card



Cat. No.	Description	Price
S15589	6-Part Muscular Arm Model	369.00/Ea

3B Scientific™ Deluxe Human Skeleton

Medical-grade skeleton works for both instructional illustration and chiropractical 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. (170cm)

INCLUDES:

- Dust cover
- Manual

Cat. No.	Description	Price
S171564	Hanging Roller Stand	1320.00/Ea
S17138A	Skeleton with Muscle Origins and Insertions; Height: 66.9 in.	1016.00/Ea
S07912	Skeleton with Muscle Origins and Insertions; Height: 75.8 in.	1052.00/Ea

Skeleton with Muscle Origins and Insertions

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 correct and realistic weight of around 200 bones
- Three part assembled skull
- Individually inserted teeth
- Removable limb
- Height: 169.9cm (66.9 in.)
- Weight: 7.2kg (15.87 lb.)



3B Scientific™ Flexible Human Skeleton Model

Medical-grade, natural-cast skeleton suitable for instructional and chiropractical 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
- Dust cover



Cat. No.	Description	Price
S171562	Flexible Human Skeleton Model	881.00/Ea

3B Scientific™ Adult Human Skeleton

Premier line of skeletal models offers educators medical-grade quality.

3B Smart Anatomy is now included.

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. (170cm) 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. (80cm)
- 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	69.5 in.	Life-Size Skeleton on 5 ft. Stainless Steel hanging roller stand with 5 casters	441.00/Ea
S17137	8.77 in.	Mini Skeleton on 5 ft. Stainless Steel hanging roller stand with 5 casters	615.00/Ea

3B Scientific™ 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 larger scheme of the body's framework
- Examine individual bones, as opposed to a fully assembled skeleton
- One hand and one foot are articulated with wire to show correct orientation of the bones
- 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)	560.00/Ea
S07911	Disarticulated Human Skeleton (with painted parts)	941.00/Ea

United Scientific™ Human Skeleton Model

Half-size model for demonstrating basic anatomical features of human skeleton

- Carpals and tarsals are fused, but rest of skeleton has natural movement in joints
- Heavy metal base adds extra measure of stability while skeleton is constructed of rugged plastic
- Features unbreakable ribs, stainless steel screws, brackets and springs to resist corrosion
- Detailed key included



Cat. No.	Description	Price
S13132	Human Skeleton Model	83.00/Ea

3B Scientific™ 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 as development proceeds. This popular model makes the complex anatomical structure of the skull easy to understand. Easily disassembled, the individual bones can be reassembled by means of inconspicuous, stable connectors attached at the slightly simplified skull sutures. All 22 bones are depicted in their natural bone color in this “Exploded Human Skull.”

- Natural cast
- Dimensions: 8.3 × 5.5 × 6.3 in. (21 × 14 × 16cm)

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	Bone Colored Adult Human Skull Model	555.00/Ea
S98674	Didactic Colored Adult Human Skull Model	637.00/Ea

3B Scientific™ Half of Head and Neck

See both internal and external features.

3B Smart Anatomy is now included.

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 mounted on stand with base
- Dimensions: 9 × 7 × 18 in. (22.5 × 17.5 × 45cm)



Cat. No.	Description	Price
S171061	Half of Head and Neck	547.00/Ea

Eisco™ Prehistoric Man Skull Set

Set of six natural sized replicas of prehistoric skulls.

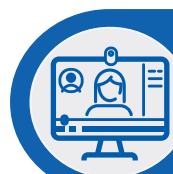


- Prehistoric man
- Natural sized replica of prehistoric skulls
- Includes: Afarenis cranium, Africanus cranium, Habilis cranium, Erectus cranium, Neanderthalensis cranium and Steinheim skull

INCLUDES:

Afarenis cranium, Africanus cranium, Habilis cranium, Erectus cranium, Neanderthalensis cranium and Steinheim skull

Cat. No.	Description	Price
S15607	Prehistoric Man Skull Set	286.00/Ea



REMOTE LEARNING
ENGAGE YOUR STUDENTS

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3B Scientific™ Deluxe Flexible Spine Model with Femur Heads

Demonstrate the anatomy of the human spine. The 3B Scientific™ Deluxe Flexible Spine Model with Femur Heads is used for anatomical study, and is flexibly mounted with movable femur heads for effective demonstration.

- Human spine model for anatomical study
- Sacral opening and exposed brain stem for further study
- Measures 32.7 in. / 83.0cm (H)
- Extremely good value and durable
- Full pelvis and occipital plate
- Fully flexible mounting throughout spine
- L3-L4 disc prolapsed on spinal column
- Spinal nerve exits
- Cervical vertebral artery
- Male pelvis
- Flexibly mounted with movable femur heads for effective demonstration



Cat. No.	Description	Price
S28476	Flexible Spine Model, Deluxe with Femur Heads	305.00/Ea

3B Scientific™ Functional Joint Models

Life-size, vinyl plastic ligamented joint models simulate actual joint movement.

3B Smart Anatomy is now included.

- Medical-quality joints have ligaments that actually stretch
- Demonstrate abduction, anteversion, retroversion, internal/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	124.00/Ea
S171343	Functional Hip Joint Model	124.00/Ea
S171342	Functional Shoulder Joint Model	124.00/Ea
S171344	Anatomical and Cellular Human Functional Knee Joint Bio Model	124.00/Ea

Eisco™ Human Articulated Hand Bone Model



Life-size human articulated hand bone model provides an incredible amount of realism and detail for examining the human skeleton. The flexible wire assembly allows for full movement demonstration.

- Life-size, anatomically correct
- 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.	Description	Price
S27433	Left Side Articulated Hand Model	25.75/Ea
S27432	Right Side Articulated Hand Model	25.75/Ea

Eisco™ Human Clavicle Bone Model



Life-size human clavicle bone model, commonly referred to as the collarbone, provides an incredible amount of realism and detail for examining the human skeleton

- Life-size, anatomically correct replica
- Realistic details, textures, and bony landmarks
- Made of durable and sturdy PVC plastic
- Ideal for both student and patient educational demonstrations
- Washable



Cat. No.	Description	Price
S27453	Left Side Clavicle Bone Model	6.90/Ea
S27452	Right Side Clavicle Bone Model	6.90/Ea



Log in to your account
on [fisheredu.com](https://www.fisheredu.com)
to see your discounts.

3B Scientific™ Classic Tooth Model Series

Five representative types of adult dentition individually mounted on removable stands.

3B Smart Anatomy is now included.

- 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	617.00/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 correct-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.	Description	Price
S27458	Human Lower Jaw	28.50/Ea

Teeth Model with Brush

This large demonstration model is a great tool to teach adults and children alike proper oral hygiene skills. The upper and lower half of an adult's dentition is shown and a flexible joint between the jaws allows for easy movement.

- Dental model with oversize toothbrush for teaching correct oral hygiene to adults and children
- Includes large toothbrush for demonstration purposes
- Fully flexible jaw allows for realistic jaw movements
- 8.5 x 6.5 x 4.5 in.
- Displays an upper and lower half of an adults dentition



Cat. No.	Description	Price
S80974	Teeth Model with Brush	46.00/Ea

3B Scientific™ Smokers Foul Mouth Display

Displays variety of harmful effects caused to mouth by cigarette smoking.

- Handpainted
- Details gum disease, tooth decay, lip cancer and more
- Unique, hinged
- Includes two removable tongues
- One tongue depicts "hairy tongue" and other portrays leukoplakia and tongue cancer
- Mouth is mounted on handpainted model of lit end of cigarette
- Comes with simulated cigarette used as pointer



Cat. No.	Description	Price
S12792	Smokers Foul Mouth Display	240.00/Ea

3B Scientific™ Mr. Dip Lip™

Show effects of dipping on inner lip, gums, and teeth.

- Mouth opens and closes from rear and flesh-like lips may be retracted
- Comes with carrying case



Cat. No.	Description	Price
S12795	Mr. Dip Lip	187.00/Ea

Foot & Ankle Skeleton Model with Ligaments

This model is mounted on a base and comes fully articulated to show the natural movement of the feet. All ligaments of the ankle are shown in detail. A great teaching aid for anatomy classes.

- Detailed model ideal for medical office or for educational purpose
- Fully articulated to show the natural movement of the foot
- Comes with a base for display



Cat. No.	Description	Price
S80993	Right Foot and Ankle Skeleton with Ligaments	43.25/Ea

Human Skin Model from Scalp Section

This plastic model is enlarged 50x from a human scalp section.



- Enlarged 50x
- This relief model displays contrasting colors of the three skin layers - epidermis, derm and subcutis, with nerves, sweat glands, hair roots and vessels
- Labeled diagram included

Cat. No.	Description	Price
S80979	Human Skin Scalp Section	53.00/Ea

Skin Model

Study hair, receptors, nerves, glands, and burn pathology with our replicated skin.

Durable plastic replica features six models in one to allow students to study hair, receptors, nerves, glands, and burn pathology.



- Details skin of the scalp, armpit, and sole of the foot, each magnified 75X
- Lets students identify the epidermis, dermis, and hyperdermis
- 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 the skin
- Fully labeled reverse side of the model details the progressive damage associated with three degrees of burns

Cat. No.	Description	Price
S171254	Six Skin Models	693.00/Ea



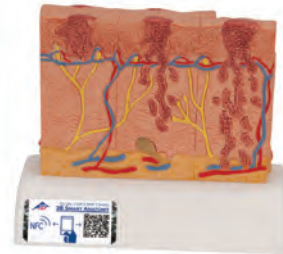
3B Scientific™ Skin Cancer Model

Vividly displays six different stages of the malignant melanoma.

3B Smart Anatomy is now included.

Enlarged eight times, this model shows great detail.

- Sides show the various levels of 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 × 4 × 4.6 in. (14 × 10 × 11.5cm)



Cat. No.	Description	Price
S90793	Skin Cancer Model, Enlarged 8X	97.00/Ea

3B Scientific™ 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 × 6 × 5 in. (12.7 × 15.2 × 12.7cm)

Two-Part Brain (S17108)

- Median section divides brain into two sections

Two-Part Brain (S98678)

- Structures of the brain shown in one color
- Provides an introduction to the human nervous system and anatomy of the brain
- Delivered on a removable base

Eight-Part Brain (S17110)

- 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 variety of brain systems



Cat. No.	Description	Price
S98678	Two-Part Brain	135.00/Ea
S17108	Two-Part Brain	175.00/Ea
S17110	Eight-Part Brain	337.00/Ea

Eisco™ Four-Part Human Brain Model

Four parts support a deeper understanding of brain anatomy.

- Median section of human brain
- Right section shows cerebellum and the stem with occipital lobe
- Features numbered
- Supported on base



INCLUDES:

English Key Card

Cat. No.	Description	Price
S95928	Four-Part Human Brain Model	118.00/Ea

Human Heart/Brain Cross-Section Models



Colorful foam model comes apart to create a cross section view for hands-on classroom demonstrations.

- Included activity guides provide activity ideas, facts and detailed information on the function of the structure being modeled
- Key structures are labeled on one half of the model with the other half left unlabeled for testing purposes



Cat. No.	Description	Price
S90818	Human Heart Cross Section Model	22.00/Ea
S90819	Human Brain Cross Section Model	22.00/Ea

Soft Foam Cross-Section Eye Model



Open up nature for inner exploration.

- One side shows the name of each part; other side is labeled only with letters so kids 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



ORDERING INFORMATION: Grades 2+.

INCLUDES: Activity Guide with lots of facts and a reproducible eye diagram to label.

Cat. No.	Description	Price
S95872	Cross-Section Eye Model	22.75/Ea

3B Scientific™ Six-Part Eye Model

Dissects into sclera with cornea and eye muscle attachments, choroid with iris and retina, lens and vitreous humour. 3B Scientific™ Eye model, Six Part is three times full size for optimal

3B Smart Anatomy is now included

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 15cm).
- Weight: 3.5 oz. (0.1kg).



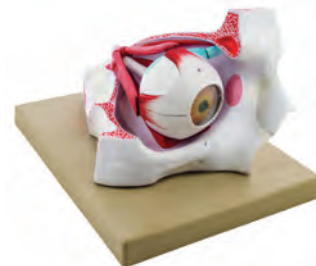
INCLUDES: Base

Cat. No.	Description	Price
S17118C	Six-Part Eye Model	149.00/Ea

Eisco™ Human Eye Model in Bony Orbit

Enlarged eye model for detailed anatomical studies.

- Nine parts in bony orbit
- Removable upper half eye ball and dissectible into six parts
- Two muscles controlling the eyeball are removable
- Mounted on base
- Numbered with English Key Card
- Size: approx. 33L x 23W x 20cm H (12.9 x 9 x 7.8 in.)



Cat. No.	Description	Price
S15546	Human Eye Model in Bony Orbit	208.00/Ea

Eisco™ Human Seven-Part Eye Model



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 numbered
- Supported on base



INCLUDES: English Key Card

Cat. No.	Description	Price
S95929	Seven-Part Eye Model	96.00/Ea

Eisco™ Nasal Swab Training Model

12 in. nasal swab training model for the demonstration of nasopharyngeal testing.



- Visual demonstration of a nasopharyngeal swab test used for testing for many respiratory viruses and airborne diseases
- Fully three-dimensional with internal anatomy shown on cross-section
- Made of polyvinyl chloride (PVC) plastic for durability and mounted onto a stand
- Suitable for many environments including educational and medical uses
- 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.	Description	Price
S28932	Nasal Swab Training Model	162.00/Ea

3B Scientific™ Four-Part Enlarged Ear

The complex functions of the ear exposed.

3B Smart Anatomy is now included.

This 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 18.8cm)



Separates into four parts:

- Removable eardrum with hammer and anvil
- Labyrinth with cochlea
- Auditory/balance nerve (two-part)

Cat. No.	Description	Price
S17124	Four-Part Enlarged Ear	187.00/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.	Description	Price
S17835	Auditory Ossicles	95.00/Ea

3B Scientific™ 3/4 Sized, Two-Part Heart Model

The heart's major functions and structures are numbered for easy memorization.

3B Smart Anatomy is now included.

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 12cm)



Cat. No.	Description	Price
S17153C	3/4 Sized, Two-Part Heart Model	87.00/Ea

Eisco™ Life Size Hand Painted Human Heart Model

Portion of the heart removes for further study of the heart.

Numbered hand painted human heart model on base. Identification key card included



Cat. No.	Description	Price
S15622	Life Size Human Heart Model	64.50/Ea

3B Scientific™ Master Series™ Blood Circulatory System

See a schematic presentation of blood circulation.

3B Smart Anatomy is now included.

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 5cm)



Cat. No.	Description	Price
S171262	Master Series Blood Circulatory System	414.00/Ea

3B Scientific™ Occluded Artery Model

Demonstrates deadly effects of high cholesterol.

- Tube represents artery constricted by plaque, which forms on artery walls when there is excess cholesterol in the blood
- Blood in artery slows or stops completely when model is turned over
- Explains importance of keeping cholesterol under control



Cat. No.	Description	Price
S12789	Occluded Artery Model	113.00/Ea

3B Scientific™ MICROanatomy™ Artery and Vein

14 times larger than life.

3B Smart Anatomy is now included.

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 anterior segment to display the orifice of a feeder vein and two venous valves
- Relief of two veins illustrates functional aspect of the venous valves
- Dimensions: 10.4 x 7.6 x 7.4 in. (26 x 19 x 18.5cm)

Cat. No.	Description	Price
S90777	MICROanatomy Artery and Vein	443.00/Ea

3B Scientific™ MICROanatomy™ Muscle Fiber Model

Magnified 10,000 times.

3B Smart Anatomy is now included.

Illustrates a section of a skeletal muscle fiber and its neuromuscular end plate magnified. The muscle fiber is the basic element of the diagonally striped skeletal muscle.

- Dimensions: 9.4 x 10.4 x 7.4 in. (23.5 x 26 x 18.5cm)



Cat. No.	Description	Price
S68279	MICROanatomy Muscle Fiber Model	377.00/Ea

3B Scientific™ MICROanatomy™ Bone Structure

Extremely detailed model shows a typical structure of a tubular bone enlarged 80 times.

3B Smart Anatomy is now included.

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 various planes in cross and longitudinal section 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
- Supplied on base
- Dimensions: 10.1 x 7.4 x 5.7 in. (26 x 19 x 14.5cm)

Cat. No.	Description	Price
S90774	MICROanatomy Bone Structure	206.00/Ea

3B Scientific™ MICROanatomy™ Kidney

Extremely detailed model shows the morphologic/functional units of the kidney.

3B Smart Anatomy is now included.

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 diagrammatic depiction of the vascular supply
- Diagrammatic illustration of a nephron with a short Henle's loop and didactic/diagrammatic illustration 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
- Diagrammatic and didactic illustration of an opened renal corpuscle
- Dimensions: 9.2 x 9.9 x 7.4 in. (23.5 x 25.5 x 19cm)



Cat. No.	Description	Price
S90780	MICROanatomy Kidney	401.00/Ea

3B Scientific™ MICROanatomy™ Digestive System

Illustrates the structure of fine tissues of the digestive system.

3B Smart Anatomy is now included.

Model includes four characteristic sections of the digestive system: esophagus, stomach, small intestine and large intestine.



- Front of the model, from top to bottom, shows a magnified view in histological section of the individual sections of the digestive system and their fine tissue structures
- Back of the model emphasizes didactically interesting areas of the digestive system with highly magnified views
- Dimensions: 11.8 × 10.4 × 7.4 in. (29.5 × 26 × 18.5cm)

Cat. No.	Description	Price
S90778	MICROanatomy Digestive System	408.00/Ea

3B Scientific™ Liver with Gallbladder, Pancreas and Duodenum

Model provides vivid display.

3B Smart Anatomy is now included.

Anatomical, base-mounted model offers detailed look at bladder, pancreas and duodenum.



- Ducts
- Duodenum
- Vessels
- Extra-hepatic ducts with gallbladder
- Main pancreatic duct and other orifices
- Dimensions: 1.6 × 8 × 7.2 in. (4 × 20 × 18cm)

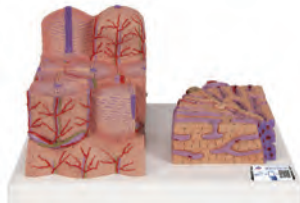
Cat. No.	Description	Price
S90798	Liver with Gallbladder, Pancreas and Duodenum	174.00/Ea

3B Scientific™ MICROanatomy™ Liver

Study the liver in detail.

3B Smart Anatomy is now included.

Two-part model shows a highly magnified diagrammatic view of a section of the liver.



- Left part shows section of the liver that comprises several lobules
- Right part offers highly magnified view of the sectioned liver lobule on left
- Dimensions: 6 × 10.4 × 7.4 in. (15 × 26 × 18.5cm)

Cat. No.	Description	Price
S90779	MICROanatomy Liver	406.00/Ea

Human Anatomy Models

Plastic models are removable from their base and come with a one- or two-sided color key card. Excellent for office display and general anatomical study.

Each affordable anatomy model is removable from its base and comes with a one- or two-sided, color key card. Most models are for general anatomical study; however, the liver and stomach models also depict pathologies.



Ear Model: Clearly shows the semicircular canals, incus, eardrum, tensor tympani muscle, and inner ear mechanisms. Dimensions: 4L × 3W × 2 1/2 in.H.

Eye Model: Features removable lens and cornea. Hand-painted structures show excellent detail. Dimensions: 5L × 3 3/4W × 4 in.H.

Heart Model: Two-piece heart is bisected for internal and external heart anatomy study. Hand-painted detail clearly shows coronary blood supply and drainage. Internal features include lifelike valves and muscle fiber bundles. Dimensions: 6L × 4W × 3 1/2 in.H.

Kidney Model: Human kidney model is two times life size. Model shows blood supply, drainage, urethral pelvis, adrenal gland, and more. Students will gain knowledge of the position of blood vessels within the kidney. Dimensions: 6 1/2 × 4 × 2 1/2 in.

Liver and Gallbladder Model: Life-size model showing inner anatomy plus a gallstone. Hepatic blood supply and drainage are clearly depicted. Dimensions: 8 1/2L × 4 3/4W × 4 1/2 in.H.

Stomach Model: Life-size model depicts the stomach from the esophagus to duodenum. Shows a gastric ulcer, duodenal ulcer, and esophageal inflammation. Provides clear views of both the cardiac orifice and pyloric sphincter. Dimensions: 6 1/4L × 8W × 1 1/4 in.H.

Cat. No.	Description	Price
S1822520B	Human Ear Model	85.25/Ea
S1827515B	Human Oversized Eye Model	78.00/Ea
S1825025D	Human Heart Anatomical Model	85.50/Ea
S1832520B	Human Kidney Model	76.25/Ea
S1833015B	Human Liver And Gallbladder Model	77.50/Ea
S1820015B	Human Stomach With Ulcers Model	77.00/Ea

3B Scientific™ Master Series™ Lungs with Heart, Diaphragm and Larynx

Life-size model has many removable parts.

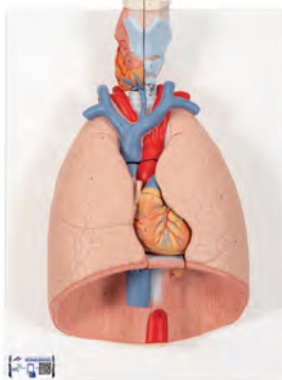
3B Smart Anatomy is now included.

Displays the viscera of the thorax.

- Durable vinyl construction
- Mounted on base for display
- Dimensions: 16 × 12 × 5 in. (40 × 30 × 12.5cm)

Contains the following 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
- 16 × 12 × 5 in.



3B Scientific™ CT Bronchial Tree Models

Created using computer tomography data of a human male.

3B Smart Anatomy is now included.

S68295: preserved the natural spatial 3-D 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 × 7.2 × 14.8 in. (22 × 18 × 37cm)



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 median plane
- Epiglottis is mounted flexibly

Cat. No.	Description	Price
S17155	Master Series Lungs with Heart, Diaphragm and Larynx	680.00/Ea

Cat. No.	Description	Price
S68295	CT Bronchial Tree	644.00/Ea
S06777	CT Bronchial Tree with Larynx and Transparent Lungs	896.00/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.

- Housed within partial vacuum
- Plastic material to prevent breakage
- Ages 13+
- May contain latex



Cat. No.	Description	Price
S28099	Lung Demonstration Model	31.50/Ea

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, yet 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.	Description	Price
S65066	Student Wet Spirometer	1034.00/Ea
S17046A	Mouthpiece	86.00/Pk of 100

3B Scientific™ Smoked Lung

Shows effect of cigarette smoking on lungs.

- 3D model of right lung with emphysema and cancer
- Opening of top reveals grayish-white fibrous-feeling cancer
- Made from BIOLIKE™ synthetic tissue
- Ideal for individual and group education



Cat. No.	Description	Price
S12796	Smoked Lung	180.00/Ea

3B Scientific™ Four-Part Digestive System Model

Two-part stomach reveals interior walls.

3B Smart Anatomy is now included.

Life-size, vinyl plastic model demonstrates the digestive tract from mouth to rectum.

- Nasal and oral cavities, pharynx, larynx with epiglottis and esophagus are median sectioned
- 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 × 13 × 4 in. (77.5 × 32.5 × 10cm)



Cat. No.	Description	Price
S171584	Four-Part Digestive System Model	641.00/Ea

3B Scientific™ Nervous System

This nervous system relief model shows a schematic representation of the central and peripheral nervous system.

3B Smart Anatomy is now included.

This relief model is securely mounted on a firm backing. It features a schematic presentation of the central and peripheral nervous systems of *Homo sapiens*. It has no removable parts, so it will remain intact for many years. The model is approximately one-half life size. Dimensions are 32 × 13 × 2 in..



Cat. No.	Description	Price
S171131	Nervous System Model	529.00/Ea

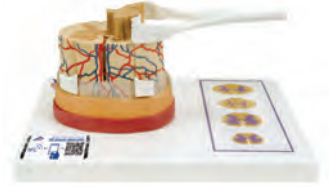
3B Scientific™ Spinal Cord Model with Nerve Endings

Magnified to a scale of about 5:1.

3B Smart Anatomy is now included.

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 and lumbar and sacral regions.

- Dimensions: 10.2L × 7.5W × 5.2 in.H (26 × 19 × 13cm)



INCLUDES: Base

Cat. No.	Description	Price
S96427	Spinal Cord Model with Nerve Endings	319.00/Ea

Prolapsed Intervertebral Disc Model



This model consists of two lumbar vertebrae that shows a herniated intervertebral disc with the nucleus pulposus protruding through a weakened section of the outer fibrous ring.

- Consists of two lumbar vertebrae flexibly mounted with the spinal nerves and spinal cord shown
- Shows a herniated intervertebral disc with the nucleus pulposus protruding through a weakened section of the outer fibrous ring
- Made exclusively from high quality medical PVC



Cat. No.	Description	Price
S89981	Prolapsed Intervertebral Disc	85.00/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.

- 3-D 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



WARRANTY: 1 year limited manufacturer warranty

Cat. No.	Description	Price
S29614	Lymph Nodes Model	282.00/Ea

Urinary System Model

Free standing model representing major components of urinary system.

- Comes with four parts
- Right kidney is dissected to show cortex, medulla, pyramids, calyces, pelvis and origins of renal artery and vein
- Bladder can also be removed and opened for detailed learning
- Durable and great learning tool in all classrooms and laboratories
- Mounted on a 10.5 x 7.5 in. board
- Dimensions: 7.5 x 5 x 13.5 in. (19 x 13 x 34cm)



Cat. No.	Description	Price
S07149	Urinary System Model	79.00/Ea

Eisco™ Human Testis Model

Model of human testis showing all details.

- Mounted on base
- Numbered with English Key Card
- Size 13 x 13 x 27cm approx.
- Weight 350g approx.



Cat. No.	Description	Price
S15572	Human Testis Model	57.00/Ea

Eisco™ Human Ovary Model

Anatomically accurate representation of female reproductive organs.

- For students to understand anatomy, physiology of ovary and reproduction
- Features anatomical structures of female reproductive organs, including ovaries, fallopian tubes, uterus, cervix and vagina
- Uterus, one Fallopian tube and ovary are bisected to show internal structures
- Size: 30 x 14 x 21cm (11.8 x 5.51 x 8.26 in.)



Cat. No.	Description	Price
S15618	Human Ovary Model	87.00/Ea

3B Scientific™ Pregnancy Series

Eight-stage pregnancy models. 3B Smart Anatomy now included.



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 22.9cm)

Cat. No.	Description	Price
S17101	14-Part Pregnancy Series	1197.00/Ea

3B Scientific™ Master Series™ Male and Female Pelvis Models

Come with removable parts. 3B Smart Anatomy now included.

Our life-size median sections of the female and male pelvises outline sex organs, bladder and muscles, and are 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
- Base-mounted
- Use both gender models together for comparative studies.



Cat. No.	Description	Price
S17143	Female Pelvis Model	289.00/Ea
S17144	Male Pelvis Model	289.00/Ea

Anatomy, Physiology, & Medical Technology

Simulators & Medical Trainers

3B Scientific™ 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 which realistically responds to adhesives and all types of bandaging procedures
- Wound closures feature surgical staples and sutures which 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
- Ileostomy
- Abdominal hysterectomy (surgical staples)
- Thoractomy (surgical staples)
- Nephrectomy (surgical staples)
- Laminectomy
- Sacral decubitus ulcer (stage II)
- Leg amputation stump (surgical staples)



ORDERING INFORMATION:

Dimensions: 33.1 x 12.0 x 25 in. (84 x 30.5 x 63.5cm); Weight: 24.25 lb. (11kg)

Cat. No.	Description	Price
S98685	Bandaging Simulator with Ostomy	1149.00/Ea

3B Scientific™ Upper Stump Bandaging Simulator

Helps learn to bandage the upper body.

- Upper torso with two arms: one amputated above elbow, other above wrist
- Slightly extended arms to facilitate bandaging
- Compressibility of material closely duplicates actual experience with patient



INCLUDES:

Instruction booklet

Cat. No.	Description	Price
S07968	Upper Stump Bandaging Simulator	366.00/Ea

3B Scientific™ Trainer for Wound Care and Bandaging Techniques



3B Scientific™ Trainer for Wound Care and Bandaging Techniques allows students to practice a wide range of dressing and bandaging techniques.

The following wounds and drain systems as the result of surgical procedures and injuries are shown realistically on the torso:

- Wound after a thyroidectomy, center
- Wound after a sternotomy (with drain), center
- Wound after a mastectomy (with drain), right
- Wound after a splenectomy (with drain), left
- Wound after a thoractomy (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 stump), left
- Colostomy
- Decubitus (grade 2), center; rear



The wound care can be carried out using the normal means, so students can practice 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.

Cat. No.	Description	Price
S27333	Trainer for Wound Care and Bandaging Techniques	1386.00/Ea

Economy Suture Pad with Suction Base



For practicing 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.	Description	Price
S72152	Economy Suture Pad with Suction Base	40.50/Ea

Eisco™ Premium Practice Suture Kit



Designed by a physician, the Practice Suture 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 & veterinary students, as well as for surgical, emergency & 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 had been cleaned of debris, dead skin, and slits to practice securing chest tubes, catheters, drains, and central lines
- Suture Pad Dimensions: (6.5 x 5.75 x 0.5 in.)
- For practice and educational use only

Cat. No.	Description	Price
S27476	Practice Pad	25.50/Ea
S27477	Complete Practice Kit	49.75/Ea

3B Scientific™ Suture Practice Arm Dark Skin

Arm with soft vinyl skin over foam allows 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 which includes suturing needle and thread



Cat. No.	Description	Price
S07958	Suture Practice Arm, Dark Skin	251.00/Ea

3B Scientific™ Suture Practice Arm and Leg

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 trainer and each can be sutured several times
- Includes starter suturing kit

Cat. No.	Description	Price
S06807	Suture Practice Arm and Leg	251.00/Ea

3B Scientific™ Suture Practice Arm



3B Scientific™ Suture Practice Arm offer realistic anatomy allows for complex suture training

- Movable fingers for suture training of challenging wounds between fingers
- Skin and subcutaneous tissue differentiated for realistic suture experience
- Customized wounds can be inflicted by instructor anywhere on the training arm
- Each cut can be sutured several times
- Surgical staples procedure possible



Cat. No.	Description	Price
S27332	Suture Practice Arm	446.00/Ea



FISHER SCIENCE EDUCATION
MAKING SCIENCE MATTER

Visit us online at fisheredu.com to learn more about our programs, services and resources.

3B Scientific™ Intramuscular Injection Simulators

Features all important anatomical palpable landmarks such as acromion and humerus to allow for placing correct intramuscular injections in an graphic way.



- 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 optionally provide an immediate or subsequent performance check under training conditions.
- Included life-like silicone skin is extremely durable and can be quickly and easily exchanged when necessary.



Upper Arm Injection Simulator (S27329) includes:

- Acromion
- Humerus



Upper Leg Injection Simulator (S27328) includes:

- Patella
- Greater tochanter

Intramuscular simulators are supplied with:

- 2 AA batteries
- Detailed instruction manual
- Replacement skin
- 5-mL injection syringe
- 21G/0.8 injection needle

Cat. No.	Description	Price
S27329	Intramuscular Injection Simulator - Upper Arm	1534.00/Ea
S27328	Intramuscular Injection Simulator - Upper Leg	2008.00/Ea

3B Scientific™ Advanced Four-Vein Venipuncture Training Aid™ – Dermalike II™ Latex Free

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™ 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™, 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 × 10 × 1.5 in.

ORDERING INFORMATION:

Carrying case (S07961) sold separately.

Cat. No.	Description	Price
S07959	Venipuncture Vein Training Aid, Light Pigmentation	352.00/Ea

3B Scientific™ I.V. Injection Arm

Allows realistic training to teach competence to medical staff.



Made of 3B SKINlike™ 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 × 7.4 × 5.5 in. (74 × 19 × 14cm) Weight: 6.2 lb. (2.8kg)

INCLUDES:

Stand, artificial blood, two replacement tubing systems, plastic bottle, syringe and deluxe storage carton. Extra stands and skin available separately

Cat. No.	Description	Price
S96636	IV Injection Arm	1110.00/Ea

3B Scientific™ Twin Stim™ Digital Electrotherapy Unit

A TENS and EMS combination for muscle stimulation and pain relief. The 3B Scientific Twin Stim™ Digital Electrotherapy 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
- 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/Off Time: 2 to 90 seconds (1 sec./step)
- Adjustable Ramp Time: 1 to 8 seconds (1 sec./step)
- EMS Modes: Two: Synchronous, Alternate
- 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 2.45cm

Notes: Requires prescription.

INCLUDES: Stimulator, lead wires, one package of high quality self-adhesive electrodes, 9V battery, hard plastic carrying case, instruction booklet.

WARRANTY: Three years.



Cat. No.	Description	Price
S20712	Digital Electrotherapy Unit	52.25/Ea

3B Scientific™ Patient Care Manikin PRO

Developed for scenario based training of patient care.

- Simulates an adult, life-size patient, with interchangeable genitals
- Can be positioned like a real patient with natural movement of the arms, legs, and joints
- You can make the patient care manikin sit upright in the bed for treatments
- Made of durable, unbreakable, and water-resistant plastics for longevity in the everyday training use
- PRO version includes removable organs for additional patient care training features



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 a patient
- Bed care of a patient
- Position changing and alignment of a patient
- Bathing a patient (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 stump)
- Wound treatment and care (surgical staple seam, laceration and abrasions)
- 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
- 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 (DFS)
- Ostomy care (colostomy)
- Irrigation of eyes and ears
- Intramuscular injections (buttocks)
- Subcutaneous injections (upper arms and thighs)
- Subcutaneous infusions

Includes:

Organs (lungs, heart, stomach, bladder and intestinal section), injection pads (upper arm, thigh, and buttocks), intestine tube, catheter, duodenal probe, talcum powder, Vaseline, lubricant, amputation stump, inserts with wound depictions (upper arm and thigh), and tools for fitting.

The PRO version includes removable organs for these additional patient care training features:

- Enema administration
- Male catheterization CH14
- Female catheterization CH 14
- Gastric (stomach) lavage
- Intestinal irrigation
- Irrigation of the bladder
- Irrigation of the vagina

Cat. No.	Description	Price
S07108	Patient Care Manikin PRO	3827.00/Ea

3B Scientific™ Cardionics SAM II™ Student Auscultation Manikin



Used for teaching or learning heart, lung, and bowel sounds

- Auscultation is an essential clinical skill needed to assess and monitor patients' conditions
- 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
- When connected to the included laptop with pre-installed software, a variety of sounds, videos and lessons recorded can be accessed
- 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 & portable
- It has the largest library of sounds (24 sounds) & videos (36 videos altogether)
- 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.	Description	Price
S27941	SAM II Auscultation Manikin, Dark Skin	14176.00/Ea
S27940	SAM II Auscultation Manikin, Light Skin	14176.00/Ea

3B Scientific™ Cardionics SAM Basic™ Student Auscultation Manikin



Used to teach or learn heart, lung, and bowel sounds

- Auscultation is an essential clinical skill needed to assess and monitor patients' conditions
- 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
- By placing the SimScope over the anatomically correct locations of SAM Basic, the programmed sounds will be played through the scope, allowing for students to employ and enhance their diagnostic skills.
- 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?

- It is lightweight & 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



Cat. No.	Description	Price
S27945	SAM Basic Auscultation Manikin, Dark Skin	3868.00/Ea
S27944	SAM Basic Auscultation Manikin, Light Skin	3868.00/Ea

3B Scientific™ Cardionics SAM 3G™ Student Auscultation Manikin

The world's most innovative auscultation product currently on the market



- Auscultation is an essential clinical skill needed to assess and monitor patients conditions
- Can be used with any stethoscope available and offers the largest Real Sound Library, Case Videos, Echo Cardiogram Videos and ECG Waveforms for students to master identification of various heart, lung and bowel sounds
- All sounds and videos are recorded from live patients for students to experience a life-like simulation
- Case videos contain patient and clinical interactions for various conditions and enhance the learning by providing visual representation of the sounds
- When connected to the laptop (Included) with the pre-installed software, a variety of sounds, videos and lessons recorded can be accessed
- When connected to speakers (sold separately) SAM 3G 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 3G Trainer

Real Sound Library for Auscultation Training includes:

- Normal Sensi 75 BPM
- Physiological Splitting of S2 UM 70 BPM
- Aortic Septal Defect Sensi 80 BPM
- Central Shunt UM 150 BPM
- Innocent Murmur Sensi 85 BPM
- Mitral Regurgitation Sensi 95 BPM
- MVP Sensi 90 BPM
- Patent Ductus Arteriosus UM 96 BPM
- Patent Ductus Arteriosus Sensi 95 BPM
- Pulmonary Stenosis and Patent Ductus Arteriosus UM 138 BPM
- Pulmonary Stenosis Sensi 88 BPM
- Restrictive Ventricular Septal Defect UM 72 BPM
- Tetralogy of Fallot Sensi 120 BPM
- Ventricular Septal Defect Sensi 76 BPM
- Ventricular Septal Defect UM 130 BPM
- Bronchial Breath 13 BPM
- BronchoVesicular 26 BPM
- Vesicular Normal 16 BPM
- Fine Crackles 10 BPM
- Late Inspiratory Crackles 14 BPM
- Low Pitched Crackles 24 BPM
- Pleural Friction Rub 28 BPM
- Velcro Crackles 10 BPM
- Wheeze High Pitched 16 BPM
- Wheeze Low Pitched 34 BPM

Cat. No.	Description	Price
S27953	SAM 3G Auscultation Manikin, Light Skin	22940.00/Ea
S27939	SAM 3G Auscultation Manikin, Dark Skin	22940.00/Ea

3B Scientific™ Bionic Hybrid Auscultation Simulator (BHS)

When worn by the standardized patient, this suit simulates physiological conditions to test diagnostic and procedural skills. The Bionic Hybrid Auscultation Simulator is controlled wirelessly with easy to use software, responds in real time to diagnosis and treatment with direct feedback.

- Simulates physiological conditions to test diagnostic and procedural skills
- Suit is controlled wirelessly with easy to use software
- Responds in real time to diagnosis and treatment with direct feedback
- Can be worn by students and/or manikins
- Integrated RFID Sensor Tags
- Carotid, and Radial Pulse
- Features 5-wire EKG connections, pulse points, blood pressure cuff accessory, as well as auscultation capabilities
- Instructors can easily adjust and adapt the suit scenarios to fit many conditions wirelessly by using the SimScope™ Wifi
- Includes SimScope™ Wifi, Tablet and Blood Pressure Cuff Accessory
- Reusable and washable at 30°C



Cat. No.	Description	Price
S27926	Medium	12887.00/Ea
S27927	Large	12887.00/Ea
S27928	X-Large	12887.00/Ea
S27929	2 X-Large	12887.00/Ea

3B Scientific™ CPRLilly PRO+ Training Mannequins

Enables instructors and healthcare providers to measure, monitor and analyze the CPR performance of up to 10 trainees at a time. Choose model with or without tablet device.

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
- Compression rate
- Compression 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 desobstruction

- 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 WiFi connection and intuitive App interface
- Practical carrying bag with training mat for comfortable practise
- Dark skin mannequin available

Includes:

- 1 CPRLilly PRO+ training mannequin
- 1 table (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.	Description	Price
S30514	CPRLilly PRO+ without Tablet	2257.00/Ea
S27323	CPRLilly PRO+ with Tablet	2505.00/Ea

3B Scientific™ BASICBilly+ Basic Life Support Simulator

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

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)

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 functionalities



Cat. No.	Description	Price
S27925	BASIC Billy+ Life Support Simulator, Dark Skin	389.00/Ea
S27924	BASIC Billy+ Life Support Simulator, Light Skin	388.00/Ea

3B Scientific™ Airway Management Trainer with Stand

Ideal for practicing airway management skills.

- Features 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 indicated esophageal insufflation
- Practice suctioning and oral and nasal intubation techniques
- With stand to mount head



ORDERING INFORMATION:

Infant Airway Trainer (S07965) can be attached to a Resusci Baby (W19517) brand CPR manikin.

INCLUDES:

Stand, pump spray lubricant and hard carrying case

Cat. No.	Description	Price
S07966	Child Airway Trainer	966.00/Ea
S07965	Infant Airway Trainer	880.00/Ea

3B Scientific™ Cardionics SimScope™ The Hybrid Simulator without WiFi



Allows a change or selection of pathological sounds and conditions for any standardized patient

- 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
- SimScope plays the programmed heart, breath and bowel sounds specific to each correct anatomical location enabling a realistic standardized patient encounter
- 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.	Description	Price
S27952	SimScope Stethoscope	5671.00/Ea

3B Scientific™ Gynecologic Skills Trainer P91

An adult-sized lower torso designed as a versatile clinical training tool to add hands-on experience for learners practicing 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 cervixes and have visual recognition of normal and abnormal anatomy variations
- Evaluate multiple conditions using the interchangeable normal and pathologic cervixes
- Pap test for cervical screening
- Practice catheterization (no fluid)
- Suppository administration and digital rectal examination

Additional Features:

- SKINlike™ high-quality silicone offers a realistic look, feel and texture in addition to a life-like softness.
- Four different uteri modules with externally palpable abnormal pathologies are easily interchangeable and can be completed with 6 different cervixes.
- Adult-sized female lower torso with accurate anatomy, including ischial spines, pubic bones and sacrum for a realistic examination
- Leg stumps already in examination position and with the gynecologic examination wedge the possibility to simulate a leaned position of the patient as in a gynecological examination chair
- Bladder can be simulated full or empty to make the palpation of the structure possibly restricted
- Offers realistic flexibility of the vaginal canal wall
- Seamless, flexible skin for practice of speculum placement
- Labia can be realistically separated
- Urethra built for catheterization simulation with CH 14 catheter
- Abdominal wall can be removed quickly and without any tools to change the uterus and the cervix easily
- 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.	Description	Price
S27320	Gynecologic Skills Trainer	1232.00/Ea

3B Scientific™ Cardionics PAT Basic™ Pediatric Auscultation Trainer without WiFi

3B Scientific™ Cardionics PAT Basic™ Pediatric Auscultation Trainer without WiFi uses a SimScope stethoscope to simulate pediatric heart, lung, and bowel sounds

- The PAT Basic™ trainer engages the technology of the SimScope stethoscope to simulate pediatric heart, lung, and bowel sounds utilizing a large sounds library
- Using the provided SimScope stethoscope, users are able to access a large variety of pathological conditions in order to customize scenarios
- By placing the SimScope over the anatomically correct locations of PAT Basic™, the programmed sounds will be played through the scope, allowing for students to employ and enhance their diagnostic skills
- PAT Basic™ consists of a Male Manikin, a SimScope, SimScope Software, Site License, USB Cable, SAM T-Shirt, and User's Manual



Cat. No.	Description	Price
S27947	Cardionics PAT Basic™ Pediatric Auscultation Trainer without WiFi, Dark Skin	2269.00/Ea
S27946	Cardionics PAT Basic™ Pediatric Auscultation Trainer without WiFi, Light Skin	2269.00/Ea

3B Scientific™ Cardionics PAT™ Pediatric Auscultation Trainer

3B Scientific™ Cardionics PAT™ Pediatric Auscultation Trainer is the complete auscultation manikin for pediatric-specific conditions

- PAT is the complete auscultation manikin for pediatric-specific conditions
- Since pediatric care requires careful consideration of growth and developmental issues, PAT is designed to prepare students to readily recognize the signs and sounds associated with pediatric-specific disorders
- With one of the largest libraries of pediatric sounds and intuitive instructional tools, PAT gives students everything they need to actively engage in their auscultation education
- Pediatric size auscultation trainer with listening points at the correct anatomical locations
- Heart sounds at different rates for comparison, (e.g. Example: Atrial Septal Defect at 75 bpm and 90 bpm)
- PAT's computer software interface is easily projected into any smart classroom
- The software includes phonocardiograms, correct anatomical locations, and written lessons for each sound
- With programmable and password-protected lectures, many institutions find value in having numerous instructors utilize PAT



Cat. No.	Description	Price
S27943	PAT Pediatric Trainer, Dark Skin	14176.00/Ea
S27942	PAT Pediatric Trainer, Light Skin	14176.00/Ea

3B Scientific™ 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)
- Skin
- 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.	Description	Price
S27324	Epidural and Spinal Injection Trainer	1973.00/Ea

3B Scientific™ Episiotomy and Suturing Trainer

3B Scientific™ Episiotomy and Suturing Trainer provides realistic help with practicing taking care of and closing birth injuries after vaginal births.



The following birth injuries can be practiced and demonstrated:

- Episiotomy, for example:
 - Median episiotomy
 - Mediolateral episiotomy
 - 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
- Base
- Stand

Cat. No.	Description	Price
S27318	Episiotomy Suture Training	358.00/Ea

3B Scientific™ Birthing Stages Trainer

3B Scientific™ 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
- Lubricant
- Carry bag
- Safety plate with 4 screws (for the optional insert in birth simulator P90)

Cat. No.	Description	Price
S27319	Birthing Stages Trainer	1587.00/Ea

3B Scientific™ P90 Birthing Simulators

3B Scientific P90 Basic and PRO Simulators have been developed for the skill training in normal deliveries, complicated deliveries and obstetric emergencies. Obstetric simulation has proven successful to enhance the training of delivery skills, following of protocols and reaction in emergency situation.



Assessment and manipulation of fetal positions:

- Birthing complications are in general less likely when an abnormal fetal position or presentation can be detected before the labor process starts.
- Using obstetric simulation, trainees will learn how to detect abnormal positions and presentations, and how to use manual techniques to assist the birthing process.
- Training of manual birthing maneuvers (like Leopold, or Pinard's) must be trained so that correct measures are applied during complicated deliveries.
- Trainee will learn when to apply obstetric emergency interventions (like a cesarean section).

Users can see how manual maneuvers affect the fetus in-utero and train the following delivery skills and techniques:

- 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) to represent routine and difficult deliveries
- 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 articulating fetus with open mouth, tiltable head, shoulder blade, and anatomical correct fontanelles
- Life-size adult female lower torso, anatomically correct 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 descend, 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 articulating fetal baby
- Umbilical cord
- Placenta

Cat. No.	Description	Price
S27321	P90 Birthing Simulator Pro	1606.00/Ea
S27314	P90 Basic Birthing Simulator	1083.00/Ea
S27316	Episiotomy Suture Training Module	216.00/Ea

3B Scientific™ Postpartum Hemorrhage Trainer P97 Module

3B Scientific™ Postpartum Hemorrhage Trainer P97 is a postpartum hemorrhage 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 CH 14 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.	Description	Price
S27315	P97 Postpartum Hemorrhage Training Module for P90 PRO and BASIC	684.00/Ea

3B Scientific™ Postpartum Hemorrhage Trainer P97

3B Scientific™ Postpartum Hemorrhage Trainer P97 is a 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™ 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 CH 14 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.	Description	Price
S27317	P97 Postpartum Hemorrhage Trainer	1195.00/Ea

3B Scientific™ Prostate Examination Trainer

3B Scientific™ Prostate Examination Trainer is 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.




Cat. No.	Description	Price
S27326	Prostate Exam Trainer	192.00/Ea

3B Scientific™ P93 PRO Catheterization Simulators

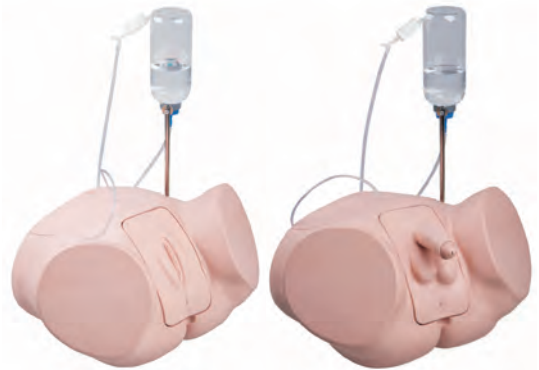
Procedures can be realistically demonstrated, practiced and assessed. Comes with suprapubic catheter which students can practice along with the trainer.

- Female and male catheterization with realistic resistance
- Three levels of adjustable narrowing of urethra on male models
- Soft and movable foreskin and labia
- 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

INCLUDES:

Realistic lower abdominal model, Catheterization set with transparent bladder, Bottle and tube connectors and Carry case

WARRANTY: 3 Year



Cat. No.	Description	Price
S37617	P93 PRO Female Catheterization Simulator	1038.00/Ea
S37618	P93 PRO Male Catheterization Simulator	1038.00/Ea
S37619	P93 PRO Male and Female Catheterization Simulator Set	1454.00/Ea

3B Scientific™ Bowel Care and Enema Trainer P16

3B Scientific™ Bowel Care and Enema Trainer P16 is a life-size bowel care trainer for realistic enema and bowel care management interventions training to help reduce the risk of complications associated with management of lower bowel dysfunction and ensure patient safety.



Simulator allows the trainees to administer different procedures. A secure fluid reception reservoir system makes the trainer leakage free. Sponge bath practice is possible using the simulated solid and soluble stool. Thanks to quick and easy change of the setting (< 1 min) various techniques can be trained under instructor control and during student practice.

Train the following bowel care procedures:

- Enema Administration
- Cleansing
- Oil-Retention
- Return-Flow
- Medicated Enemas
- Suppositories administration
- Medication administration
- Digital Rectal Examination (DRE) and Stimulation (DRS)
- Digital Removal of Faeces (DRF)

Features:

- Simulates the buttock of a patient with femoral stumps, anus and bowel in pre-positioned left lateral recumbent position
- Upper buttock is soft and flexible to be most realistic; the trainee has to lift it to gain access to the anus
- Supports the insertion of CH16 to CH40 catheters and balloon rectal tubes
- Digital Rectal Inserts are made of SKINlike™ sturdy silicone to simulate human skin and tissue haptic during DRE and DRS

- Anus stays close and remains impenetrable after the removal of the catheter due to the high quality of the insert material
- Contains two 3D anatomical didactic models of hemorrhoids to facilitate the explanation of complication or contraindication:
- One displaying a rectum frontal section with hemorrhoids, anal fissures and fistulae
- Another of an external view with swollen anal prolapse and hemorrhoid knots
- 3D models are attached to the model with magnet so the model can be passed from student to student during class
- Secure fluid reception reservoir system:
- Ensures portability, impermeability, security
- Administer standard enema solutions without risk up to a volume of 2 liters
- Fluid can be drained into the reception reservoir or directly into a nearby sink or canister
- Easy to clean
- Optimized design to enable a quick and simple installation for each procedure



Includes:

- Bowel Care Trainer P16
- Secure fluid reception reservoir
- 1 DRE, 1 DRS and 1 DRF insert
- 2 magnetic 3D anatomical models of Hemorrhoids
- Artificial solid stools (Bristol Stool Chart type I)
- Solid (150 g) and soluble (60 g) stool powder, artificial
- Dosage spatula and cup for stool preparation
- Bottle of concentrate blood (250 mL), artificial
- Blood pipette injector
- Talcum powder (100 g), Vaseline
- Plastic storage box for consumables
- Soft carrying bag

Cat. No.	Description	Price
S27325	P16 Bowel Care And Enema Trainer	1044.00/Ea

3B Scientific™ Decubitus Trainer

3B Scientific™ Decubitus Trainer allows students to learn about professional assessment (examination, measurement and description), wound care and bandaging techniques in various stages of decubitus.



- Flexible material provides realistic training in changing and putting on 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.	Description	Price
S27330	Decubitus Trainer	935.00/Ea

3B Scientific™ Buttock Injection Simulator

3B Scientific™ Buttock Injection Simulator is a 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
- 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 21G/0.8 injection needle and 5 mL syringe.



Cat. No.	Description	Price
S27327	Buttock Injection Simulator	2008.00/Ea

3B Scientific™ Diabetic Foot Treatment Trainer

3B Scientific™ 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
- Leg not included



Cat. No.	Description	Price
S27331	Diabetic Foot Treatment Trainer	158.00/Ea

3B Scientific™ Standard Blood Drawing Chair with Drawer

Equipped with one polystyrene supply drawer.

- Designed to save time and increase efficiency
- Gray powder-coated steel frame
- One-piece contoured black poly-propylene seat
- Interchangeable armrests and be set up for left or right hand use
- One Armrest pivots 360 degrees and other is non-pivoting (both armrests are 10 in. height range)
- Easy-to-clean gray laminate finish
- Ready-to-assemble



Cat. No.	Description	Price
S20687	Blood Drawing Chair	771.00/Ea



Restock Your Nurse's Suite

Use this curated list of products to replenish supplies in your school nurse's office, and visit [fisheredu.com](https://www.fisheredu.com) to find even more science education products.

Description	Cat. No.	Quantity
Infection Control		
Eisco™ Disposable Face Masks	S27423	50/Pk
Kimberly-Clark Professional™ Kimtech™ Purple Nitrile™ Gloves	S78945	100/Pk
AquaPhoenix Scientific™ Antimicrobial Hand Sanitizer with Pump Spray	S27937	100 mL
Fisherbrand™ Sparkleen™ 1 Detergent	S701101	3.25 lb.
First Aid		
Stat Strip™ Adhesive Bandages	S47527B	100/Pk
North™ Gauze Pads	S35917	10/Pk
AquaPhoenix Scientific Pandemic Personal Kit	S27935	Each
Furniture		
Fisherbrand™ Vinyl Stool without Back, Medium Bench Height with Chrome Foot Ring and Casters, Grade B Vinyl	S38574	Each
Respiratory Monitoring		
3B Scientific™ Baseline™ Fingertip Pulse Oximeter	S20764	Each
Charts		
Human Physiology Charts	S65073	Each
Blood Cell Chart	S233716	Each
CPR/BLS Education		
3B Scientific™ Basic Patient Care Manikin Upgrade Kit	S96633	Each
Nasco CPR Prompt™ Training and Practice Manikin	S97920	5/Pk
Educational Models		
3B Scientific Adult Human Skeleton, Includes 3B Smart Anatomy	S17133B	Each
3B Scientific Muscle Torso with Head, Includes 3B Smart Anatomy	S17186	Each
Instruments		
Eisco™ Micro Plus Stethoscope	S23682	Each
3B Scientific Advanced Manual Inflate Large Cuff Blood Pressure Monitor	S37585	Each
Otoscope Specula	S06964	Each
ZOLL™ Medical AED Pro™ Simulator	S38762	Each

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