

## PHYSICS DEMONSTRATIONS

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### Premium Van De Graaff Kit

S05838

- Precision machined dome bracket to ensure easy fit and an aluminum 250mm dome mounting to collect charge
- Removable grounded base mount discharge wand
- 3 speed adjustable motor
- Typical discharge arch is 2-8 cm
- Kit includes 10 electrostatic attachments, assembly instruction guide, troubleshooting guide, pedagogy, and student activities

Finally an all-inclusive, high-power Van de Graaff generator kit. Generates 200,000 - 400,000 volts depending on humidity levels. This kit can be used to demonstrate many aspects of electrostatics such as charge conservation and transfer, triboelectric effect, conductors, insulators, and ionization. Kit includes Van de Graaff generator, discharge wand, dust cover, Faraday's pail, perspex cylinder, head of hair, point discharger, neon bulb, electric whirl, pillar with suspended metal sphere, and comb, as well as an activity guide that explains how to use all of the attachments.



### Pulley Demonstration Activity Set Student's

S99358

A highly versatile apparatus for the demonstration of various concepts associated with pulleys and their conjugations. Consists of a rectangular wooden base with a socket at the top in which the 12.5 cm diameter, 61 cm long metal rod can be screwed. At the top of the vertical rod, a right angled clamp supports a horizontal rod. Eight collars with hooks are provided and can be inserted on the horizontal rod for suspending various pulleys. A capstan is fitted on the wooden base at one end, with a hook for attaching a pulley at the other end of the base. User manual included.

This kit includes:

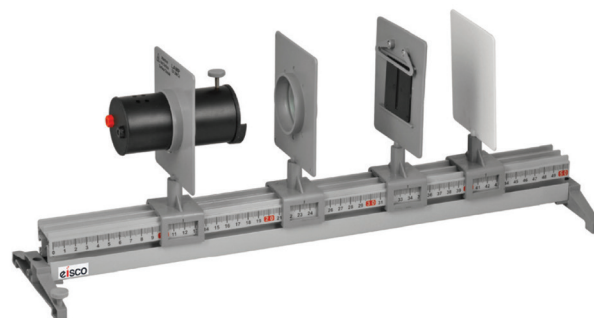
- 8 single and 2 double sheave EISCO ball bearing frictionless pulleys
- Wooden base (20 x 15 cm) fitted with one vertical rod (61 cm x 12.5 mm) and one horizontal rod (20 cm x 9.5 mm) with clamp
- 6 Collars with hooks
- 1 Right angled clamp
- 1 Wheel & axle
- Cord - 2 rolls
- 1 Tommy bar to tighten vertical rods
- Set of 9 brasshooked masses (1 x 10 g, 2 x 20 g, 1 x 50 g, 1 x 100 g, 2 x 200 g, 1 x 500 g & 1 x 1000 g)



### Complete Optical Bench and Attachment Set

S07815

This is a fully comprehensive optical bench that includes 40 pieces and an 80 page user and activity manual to support an entire year of optical course work. The bench is constructed with extruded aluminum and durable ABS plastic optical brackets. Storage bin with foam cut outs included. Visit [fisheredu.com/eisco](http://fisheredu.com/eisco) for a complete list of lab activities and parts.



## Premium Wimshurst Generator

S05839

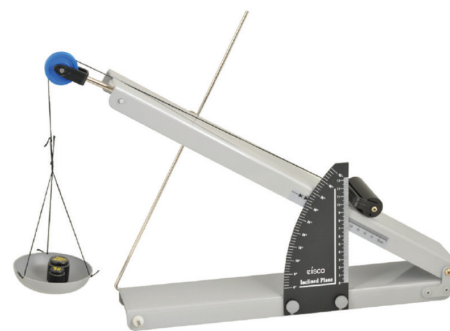
Used for generating static electric charges and causing electric discharges, it produces higher current with lower voltage. Two 25 cm diameter plates with equally spaced aluminum foil sections are supported by two rigid uprights and driven by a belt in opposite directions via a hand crank. It has two large Leyden jar condensers and premium capacitors constructed from Corning glass and aluminum foil. This Wimshurst is mounted on a sturdy ABC base, stands 38 cm tall, and can generate up to 75,000 volts. User manual included.



## Deluxe Intermediate Inclined Plane

S96184

This inclined plane is very useful for investigating acceleration, friction, gravity, Galileo's free-fall experiments, and more. Features include solid aluminum construction, an adjustable pulley, roller, pan, and protractor for angle measurement as well as a manual. The length of the plane is approximately 480 x 70mm. Weights not included.



## Hooke's Law Apparatus with Weights

S96529

This complete apparatus has a 15cm adjustable scale marked in millimeters and mounted on a sturdy 30cm support rod and wooden base. The adjustable scale helps to prevent parallax error. A hook supporting a coiled spring with a mass hanger and indicator is attached to the rod. 10g weight plates (9) included along with experimental notes.



## Boyle's Law Apparatus

S24873

This Boyle's Law Apparatus can be used to demonstrate the relationship between pressure and volume of gas. The unit consists of a 1.14" (29mm) dia. graduated cylinder with a piston and a screw valve. The cylinder acts upon a manometer through a narrow passage of 2.3" (60mm) dia. The manometer dual scale is from 0-4 x 10<sup>5</sup> Pa and 0-58 PSI with needle set at atmospheric pressure. The cylinder, gauge, and digital thermometer are mounted on a durable metal base and the height is approximately 21 cm. 1.5v AA battery required, not included.



## Wave Apparatus Demo

S23751

This apparatus is used to demonstrate longitudinal and transverse motion. Transverse waves are obtained by rotating the handle that connects to several eccentric discs supporting a series of metal rods. Longitudinal waves are obtained via the bent rods running in the metal guide on the base. User manual included.



## Premium Gyroscope and Gimbals Cradle

S12942

This is a high quality gyroscope with a dynamically balanced 60 mm rotor that rotates via adjustable cone screws. Supplied with manual.



## Newton's Cradle with Wood Base

S12947

Newton's Cradle is used to teach conservation of momentum in Physics classes around the world. Includes five 4.3g nickel plated stainless steel balls (22mm dia), each suspended by 127mm of string (pendulum length of 114mm). The arms are 159 mm tall and inserted 111mm away from one another on a 15.25 x 17.80 cm wooden base (measurements approximate). Some assembly required.



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