



<u>Title</u>	<u>Grade Level</u>	<u>Subject</u>
01 Pendulums	(8-12)	Physics, Math
02 Measuring Length	(6-10)	Measurement
03 Graphing	(6-10)	Math, Physics
04 Balancing	(6-11)	Physics, Math
05 Weighing	(5-10)	Physics, Math, Technology
06 Metric Measure	(8-12)	Measurement
07 Math Lab	(7-12)	Hands-On Math
08 Probability	(6-10)	Math
09 Floating and Sinking	(7-12)	Physics
10 Analysis	(5-10)	Chemistry
11 Oxidation	(6-10)	Chemistry
12 Solutions	(6-10)	Chemistry
13 Cohesion/Adhesion	(6-10)	Chemistry, Physics
14 Kinetic Model	(7-12)	Physics, Chemistry
15 Heat	(8-12)	Physics
16 Pressure	(7-12)	Physics
17 Light	(6-11)	Physics
18 Sound	(7-12)	Physics
19 Electricity	(8-12)	Physics
20 Magnetism	(8-12)	Physics
21 Motion	(7-12)	Physics, Math
22 Machines	(7-12)	Physics, Math
23 Rocks and Minerals	(6-12)	Earth Science
31 Perfect Balance	(K-12)	Physics, Math, Technology
32 Electricity	(3-8)	Physics
33 Magnetism	(3-8)	Physics
34 Pendulums	(4-9)	Physics, Math
35 Metric Measuring	(5-9)	Measurement
36 More Metrics	(6-10)	Measurement
37 Animal Survival	(3-8)	Life Science, Zoology, Art

<u>Title</u>	<u>Grade Level</u>	<u>Subject</u>
38 Green Thumbs: Radishes	(3-8)	Life Science, Botany, Art
39 Green Thumbs: Corn and Beans	(4-12)	Life Science, Botany, Art
40 The Earth Moon and Sun	(7-12)	Astronomy, Earth Science
41 The Planets and Stars	(7-12)	Astronomy, Earth Science
42 Focus Pocus	(5-10)	Physics, Math
43 Far Out Math	(9-12)	Math
44 Scale the Universe	(5-12)	Space Science, Math
45 Pi in the Sky	(5-12)	Space Science, Math
61 A Summer Start Master Teacher	(1-8)	Lesson Planning
62 Intermediate Alphabet Soup Master Teacher	(4-8)	General Curriculum for first week of school
63 Peaceful Procedures Master Teacher	(1-8)	Classroom Management
64 Primary Alphabet Soup Master Teacher	(1-3)	General Curriculum for first week of school
71 Primary Lentil Science	(K-3)	Integrated Science, Math, Art, Language
72 Intermediate Lentil Science	(3-6)	Integrated Science, Math, Art, Language
73 Get a Grip	(K-6)	Math and Science skills – self-paced
91 Global TOPS Resource Manual	(3-10)	General Science, Math
95 Try This On for Science	(3-12)	Sampler
100 Triple Magnifier Kit	(3-12)	Magnifiers
200 Diving Into Pressure and Buoyancy	(K-12)	Physics

Prices valid for 2017-2018 school year after which, pricing is subject to change. Please check www.topscience.org for current pricing.



<p>01 Pendulums (8-12) Improvise a variety of sophisticated contrivances that swing, bounce, and otherwise oscillate, then learn their properties by counting, timing, charting and graphing their results. Discover a simple equation with powerful applications. Math teachers, don't miss this one! 01 (Print) \$15.95 E01 (E-Book – PDF) \$12</p>	<p>02 Measuring Length (6-10) High-interest labs play with various units of measure, go on to recognize the ease and convenience of using centimeter. Students devise clever ways to measure, consider measuring accuracy, report plus/minus uncertainty. 02 (Print) \$15.95 E02 (E-Book – PDF) \$12</p>
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<p>13 Cohesion/Adhesion Spilling over with good, clean fun: watch simple liquids heap, roll, creep, and soak as you investigate cohesion, adhesion, surface tension and capillary action. Model the hydrogen bonds that hold water together. Separate ink with chromatography, learn about oil slick rainbows. 13 (Print) \$16.95 E13 (E-Book – PDF) \$13</p>	<p>14 Kinetic Model (7-12) Can we determine the nature of things we can't see? Apply inferences to investigating the nature of solids, liquids and gases. Discover matter as a collection of particles in constant thermal motion through a variety of phenomena – diffusion, expansion, contraction, condensation, more. Whew! 14 (Print) \$16.95 E14 (E-Book – PDF) \$13</p>



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<p>19 Electricity (8-12) Probe the nature of like and unlike charges. Improvise bulb and battery holders and switches to configure parallel and series circuits. Predict flow using Ohm's law. Construct galvanometers, variable resistors, fuses, electroscopes, much more! Split water and recombine gases in a safe mini explosion. 19 (Print) \$19.95 E19 (E-Book – PDF) \$16</p>	<p>20 Magnetism (8-12) Make a quick compass from a pin. Use it to map the field of a magnet – or a planet! Demonstrate the nature of magnetic domains. Transform wire, batteries and magnets into a riveting array of inventions, including electromagnets, buzzers, motors, generators, relay switches... 20 (Print) \$18.95 E20 (E-Book – PDF) \$14</p>
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<p>23 Rocks and Minerals (6-12) No exotic or expensive specimens needed, and you can order support kits directly through TOPS. Examine, test and classify rock samples from your own back yard. Unearth igneous, sedimentary, metamorphic rock, subdivide by geological formations. Many labs are accessible to younger kids to. 23 (Print) \$19.95 E23 (E-Book – PDF) \$16</p>	<p>31 Perfect Balance (K-12) Differentiated instruction at its hands-on best. Students build two simply elegant paper beam balances to make quick sense of equations, inquire into mass and weight. Even preschoolers can interact at age-appropriate levels. 31 (Print) \$19.95 E31 (E-Book – PDF) \$17</p>
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<p>200 Diving Into Pressure and Buoyancy (K-12) Designed for differentiated instruction, these labs employ Cartesian divers to immerse students in floating and sinking, Archimedes' principle, displacement, density... Similar format to self-directing Task Cards, yet served in bite-sized steps like structured Activity Sheets, labs accommodate widely divergent student ability levels and adapt to tight time schedules. E200 (E-Book – PDF) \$8.50</p>	



Starter Kits and Class Kits:

Starter Kits, we supply items in quantities that serve one student or two students working in a lab pair. Class Kits supply enough materials for 15 students working independently, or 30 students working as lab partners.

Kit/Price	What's Included...	You supply...
07 Math Lab Kit Starter Kit SK07 \$9	index card, clear tape, masking tape, hand lens, thread, straight pins, paper clips, styrofoam cups, adding machine tape, drawing compass, ruler, crayon	Pennies or paper punches, notebook paper, copier paper, scissors, calculator, dark construction paper, glue, pencil sharpener, corrugated cardboard (8.5x11"), pencil lead, used envelopes with bar code
10 Analysis Kit Starter Kit SK10 \$25.50 Class Kit CK10 \$113	sublimed sulfur, alum, baking soda, corn starch, fine-grained popcorn salt, fine-grained confectioners sugar, sand, cleanser, garden lime, aspirin tablets, seltzer tablets, ascorbic acid, ammonia, vinegar, tincture of iodine, aluminum foil, waxed paper, candles, red and blue litmus paper, masking tape, 10 mL graduated cylinder, dropper bottles, eye droppers, clothespins, bottle caps, index cards, straight pins	purple cabbage, can of beets, heat source for drying (Bunsen burner, hot plate or warm radiator), and lab balances. (Purchase Weighing #05 to make an improvised balance accurate to 0.01 g. Or buy the Pocket Gram Scale
11 Oxidation Kit Starter Kit SK11 \$30.50	index card, aluminum foil, masking tape, test tubes, graduated cylinder, dropper bottles, super-duty D-cell batteries, tubing, clothespins, steel wool, baby food jars, birthday candles, modeling clay, rubber bands, garden lime, craft stick, wire, nail, ceramic magnet, washer	Pint jar with lid, matches, tuna can, empty toilet tissue rolls, scissors, produce bag, sandwich bag, large tub, metric ruler, wire cutter (optional) measuring spoons, vinegar, baking soda, paper towels, plastic wrap, active dry yeast, hydrogen peroxide, chlorine bleach, calculator, margarine tub lid, quart jar, liquid soap, shallow saucer, isopropyl alcohol (70%), dictionary
12 Solutions Supplies SS12 \$18.50	seven key chemicals: 10 mL Alum, 10 mL Copper Sulfate, 20 mL Rock Salt, 20 mL Epsom Salt, 20 mL Calcium Acetate, 20 mL Sodium Thiosulfate and 1 dropper bottle of Iodine	Paper towels, scissors, chlorine bleach, mineral oil, liquid detergent, India ink, vinegar, distilled water, hot plate, non-dairy creamer, pepper, small paper cup, metric ruler, rice, powdered milk, flour, tape, graduated cylinder (10mL), seltzer tablets, sugar cubes, tissue, scouring cleanser, index card, paper punch tool, plastic straws, calculator, Pyrex beakers, clothespin, permanent marker
14 Kinetic Model Kit SK14 \$54	aluminum foil, index card, masking tape, clear tape, plastic jars, graduated cylinders, thermometers (12" glass), heavy-duty D-cell batteries, straws, test tubes, syringe, pipettes, tubing, food coloring, magnet, clothespin, emergency candle, birthday candles, modeling clay, rubber bands, paper clips, straight pins, styrofoam cups, hand lens, flashlight bulb	Scissors, pressed cardboard, milk cartons (quart or half gallon), produce bag, popcorn, dictionary, small jars with lids, cider jug, food coloring, table salt, paper towels, matches, ice shavings or snow, wax shavings, rubbing alcohol, plastic wrap, hole punch, tub or bowl, empty can, toilet tissue, quart jars with lid, string, twist ties, calculator



17 Light Kit SK17 \$31.50	aluminum foil, waxed paper, mirrors, index cards, 5 heavy-duty D-cell batteries, baby food jar, clear tape, masking tape, straws, canning ring, test tubes, pipette, rubber bands, straight pins, paper clips, thread, microscope slides, hand lenses, flashlight, clear vial	Milk, dark cloth towel, tin cans, scissors, empty cereal box, hole punch, pennies, notebook paper, cake pan (approx. 9x12"), tuna can, prisms (optional), paper plate, blue and yellow cellophane or transparent plastic, textbooks, plastic wrap, ball point pen, spoon, tissue
19 Electricity Supplies ES19 \$12.50	5% HCl in a dropper bottle, six split-shot lead sinkers, one 2 1/2 inch galvanized nail, one 220 micro-Farad electrolytic capacitor, and two 100 ohm Resistor (1/2 watt)	Thread, silk cloth, masking tape, scissors, styrofoam cups, D-Cell batteries, bare copper wire 24 gauge or thinner, pliers pennies, flash light bulbs, straws, rubber bands, straight pin, tin can, aluminum foil, paper punch,
23 Rocks and Minerals Kit Starter Kit SK23 \$32.50 Class Kit CK23 \$175.50	sand with mica, sea shells, granite, basalt, hydrochloric acid, Epsom salts, sugar, salt, pepper, chalk, candles, masking tape, modeling clay, pie tins, microscope slides, eye droppers, test tubes, 100 mL graduated cylinders, film canisters, lids, marbles	pliers, brick, egg cartons, safety goggles, pocket calculator, tubs, and lab balances. (Purchase Weighing #05 to make an improvised balance accurate to 0.01 g. Or buy the Pocket Gram Scale, listed below, accurate to 0.1 g.)
32 Electricity Kit Starter Kit SK32 \$29.50 Class Kit CK32 \$156	4 size-D batteries, 4 bulbs, masking tape, aluminum foil, paper clips, rubber bands, index cards, wooden clothespins, steel wool, straight pins, balloons	scissors, pennies and a paper punch
33 Magnetism Kit Starter Kit SK33 \$20.75 Class Kit CK10 \$88	size-D battery, thin and thick copper wire, paper clips, straight pins, aluminum foil, thread, masking tape, clear tape, styrofoam cups, index cards, plastic cups, permanent marker, nails, washers, clothespins, modeling clay, rubber bands, manila folders, rice grains	ceramic magnets, scissors, pennies, hole punch, glass jars, staples
91 Global TOPS Kit Starter Kit SK10 \$26 Class Kit CK10 \$320	aluminum foil, masking tape, clear tape, 3 size D alkaline batteries, baby food jars, clothespins, paper clips, magnets, wrapping wire, iron nails, steel wool, straight pins, thread, rubber bands, flashlight bulbs, salt, and sugar	Scissors, wall clock, pennies, calculators, small glass jars with lids, large glass jars, string, paints, crayons, or colored pencils, newspaper, potting soil, plastic wrap

