

KIT CONTENTS LIST FOR USE WITH: Science: Order & Design (Grade 7)

2nd Edition

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<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
1.5	Super Glue (PT-SUPGLUE)	1	Use in place of nail polish. Ask a parent for help and use provided gloves.
1.5, 13.1	Digital Pocket Scale, 600 g capacity, 0.1 g precision (BS-SPB600)	1	
1.5, 2.2	Seeds, baby lima bean, pack (LM-SEEDBEA)	1	
1.5, 2.7, 10.1	Filter Paper, 11 cm, 10 pack (CE-FILTPAP)	1	Use filter paper in place of weighing paper 1.5
1.5, 3.2, 5.2, 13.1	Plastic Graduated Cup, 8 fl oz. (CE-GRADCUP)	8	Use cups in place of beakers and jars. Re-use cups throughout course.
1.5, 7.4	Paper Clips, small size, box (GS-PCLIPSM)	1	
1.5, 9.2, 10.1	Gloves, Nitrile, Size Medium, Pair (GS-GLOVNIT)	2	
11.1, 11.3, 11.4	Home LED Microscope (MI-4100LST)		Purchase separately. We recommend this microscope as the best choice for most home schools. It will provide excellent service through high school. See our catalog or website for other microscope options.
2.1, 2.2, 7.4	Drawing Paper, white, 9"x12" (PT-PAPDRAW)	6	white computer paper
2.1, 2.2, 10.3, 11.1, 12.4	Scalpel, one-piece (DE-SCALPEL)	1	
2.1, 2.7, 7.1, 10.1, 12.4, 13.1, 13.3	Scissors, office (GS-SCISSORS)		Use any household scissors
2.1, 5.1, 7.1, 10.1, 13.1	Construction paper, black (PT-PAPCSBK)	7	
2.1, 9.2, 10.1, 10.3, 13.1	Magnifying Glass, 2", 3X Lens (OP-MAGNIFY)	1	
2.2	Starch, water soluble, 30 g (CH-STARCH)	1	
2.2	Talc, 30 g (CH-TALC)	1	
2.2, 10.3, 11.1, 11.3, 11.4, 12.4	Pipet (medicine dropper) (CE-DROPPER)	1	
2.2, 2.3, 10.1, 10.3	Petri Dishes, polystyrene, 90 x 15 mm, 2 pack (BE-PETRI1)	1	Use the petri dishes to grow seeds in 2.3; 2 seeds per petri dish
2.2, 2.7	Watch Glass, 100 mm (CE-WATCHLG)	2	
2.2, 2.7, 3.2, 11.1, 11.3	Chemical Splash and Impact Safety Goggles, Adult (CE-GOGGLE1)	1	Important to use personal protective equipment while working with chemicals
2.2, 2.7, 11.1, 11.3	Iodine (Lugol's) Biological Stain Solution, 30 ml (CH-IODINE)	1	
2.3	Seeds, corn, pack (LM-SEEDCOR)	1	
2.7	Acetone, 30 ml (UN1090)	2	

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2.7	Electric Hot Plate (CE-HOTELEC)	1	Use the stove in place of a hotplate for 2.7B
2.7, 13.1	Beaker, glass, 50 ml (CE-BE10050)	2	
2.7, 3.2, 3.3, 7.1, 11.4, 13.1	Beaker, glass, 600 ml (CE-BE10600)	1	Use this beaker to hold the test tubes upright in activity 13.1
2.7, 9.2, 11.1	Forceps, stainless steel (DE-FORCEP)	1	
2.9, 3.2, 3.3, 7.1, 7.2, 10.3, 12.4	String, heavy cord, 25' (MC-STRING)	1	Use string and washer for 3.3 in place of meterstick
2.9, 8.1	10x18 poly bags, 1.5 mil (PK-BA10X18)	1	Re-use bag
2.9, 8.1	Thermometer, Celsius, 12" (ME-THER30B)	1	
3.2	Dextrose (glucose), 30 g (CH-DEXTROS)	1	Mix dextrose with water and heat to dissolve and use in place of corn syrup.
3.2	Food Coloring, 4 colors (CH-FOODCOL)	1	1 color included.
3.2	Straws, clear plastic (PT-STRAWCL)	1	
3.2, 3.3	Glacial Acetic Acid, 30 ml (UN2789)	1	
3.2, 7.4, 13.3	Ruler, 30 cm (ME-RULER)	1	
3.3	Washers, 1" diameter, each (PT-WASHBLK)	1	Use string and washer for 3.3 in place of meterstick.
4.4	Counting Chips, White, 24 pieces (GS-PLCHIPS)	1	
4.4, 10.3, 12.4, 13.1	Marker, black, permanent (BE-MARKBLK)	1	
5.1	Construction paper, red (PT-PAPCSRDR)	2	
5.2	Parafilm M Laboratory Film, 1 ft (GS-PARFLM1)	1	Cut and stretch. Use in place of plastic wrap
5.2, 10.3	Cheesecloth, bleached (GS-CHCLOTH)	1	
6.1	Balloon Set of 9 (GS-BALLOON)	1	Balloons will need to be secured to Y-connector using tape or clay.
6.1	Clay, modeling, 4 oz. stick (GS-CLAY)	1	
6.1	Vinyl Tubing, 4.8 mm, 2' long (CE-TUBEPLS)	1	
6.1	Y Connector 4.8 mm Tubing, plastic (CE-TUBEY)	1	
7.1	Spring scale, 1000 g/10 Newton (BS-SCALE3)	1	
7.4	Graph paper, 8.5 x 11 inch, 0.25-inch squares grid, double-sided (PT-GRIDPAP)	2	
7.4, 8.1	Digital Stop Watch, 2" (ME-STOPWAT)	1	Can use another source of a timer.
8.1, 10.1	Critter Habitat - Aquarium, small (BE-AQUASML)	1	
8.3, 10.1, 12.4, 13.3	Peat Moss, 60 cubic inches (GS-PEATMOS)	3	
9.1, 9.2	Insect Pins, size 2, student (BE-INSP02E)	1	
9.2	Dissecting Tray, Styrofoam, 8" X 10" (DE-TRAYS)	1	
9.2	Grasshopper Specimen, Lubber, Large (PM-GRASHOP)	1	Use in place of a dried insect. Scalpel and pins included.
9.2, 10.3	Pocket Microscope, LED, 120X (MI-PK120X)	1	
10.1	Pill or Sow Bugs, 12 pack (LD-PILLBUG)		Not included in the kit. Live Culture for 10.1 Purchase at time of activity.

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10.3	Planaria (brown) - Live Culture (LD-PLANAR)		Not included in the kit. Live Culture for 10.3. Purchase at time of activity.
10.3, 11.1, 11.3, 11.4	Microscope Slide Set, Basic (MS-SLIDSET)	1	
10.3, 11.4	Methyl Cellulose, 1.5%, 30 ml (CH-METHCEL)	1	
11.1	Cork, No. 9 (CE-CORK09)	1	
11.1	Elodea (Anacharis) - Live Culture (LD-ELODEA)		Not included in the kit. Live Culture for 11.1. Purchase at time of activity.
11.1	Letter "e", w.m. (MS-ELETTER)	1	
11.3	Balloons, medium, 9" (GS-BALLOMD)	3	
11.3	Pure cane sugar, single-serve packet (2.8 grams) (GS-SUGPAK)	3	
11.3	Spirogyra (green algae) slide, w.m. (MS-SPIROC)	1	
11.3	Toothpicks, pack (GS-TOOTHPI)	1	
11.3	Yeast, packet (LM-YEAST)	2	
11.3, 12.4	Clear 17oz bottle with cap (CE-BTCL502)	3	Use these bottles in place of flasks for 11.3. These can be used for Experiment 12.4 if 2 liter bottles are not available.
11.4	Protozoa Culture Kit (LM-PROTIST)	1	
12.4	Lid, fits 1 gal jar, linerless (PT-CAP1GAL)	1	Large white container lid
12.4	Styrofoam Cup, 12 oz, each (PT-STYCUP12)	3	
13.1	Brine Shrimp Eggs, 6g vial (LM-BRSHRIM)	1	
13.1	Light, small beam penlight (OP-LIGHT3)		Optional for experiment but not necessary.
13.1	Sodium Chloride, 30 g (CH-NACL)	1	
13.1	Stirring Rod, glass, 6" (CE-STIRROD)	1	Use a spoon to stir.
13.1	Test Tube Rack, 6 holes (CE-TTRACK1)	1	Use the 600mL beaker to hold the test tubes
13.1	Test Tubes, large 16 x 150 mm (CE-TTUBELG)	3	
13.3	Charcoal Powder, activated, 30 g (CH-CHARCL)	1	
13.3	Cup, clear plastic, 16 oz (PT-CUP16OZ)	4	Use these for the ecosystem in 13.3 if soda bottles are not available.
13.3	Pebbles, fine gravel, 1 lb. (GS-PEBBLE)	1	

1. The products in this kit are intended for parent/teacher use to complete curriculum lab activities with students.
2. Some items are not designed for or intended primarily for children ages 12 and under.
3. Some materials and many chemicals we provide are dangerous and may be harmful if misused. With your purchase, you are assuming all responsibility for any injuries or damages resulting from the storage, use, and disposal of all materials and chemicals.
4. Some products may differ from the web image (such as clay, food coloring, etc.)
5. Some items readily available at grocery stores or not offered by Home Science Tools are not included.
6. We guarantee that you will be happy with every purchase from HST. All products are covered by our 90-day money-back guarantee.

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