

**KIT CONTENTS LIST FOR USE WITH: Exploring Creation with Chemistry & Physics**

**Apologia Educational Ministries**

*Home Science Tools is not affiliated with the above curriculum publisher.*

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
1-14	Apologia Chemistry and Physics Notebook <i>(AM-CHPHNBK)</i>		Order curriculum/books seperately.
1-14	Apologia Chemistry and Physics Textbook <i>(AM-CHPHYS)</i>		Order curriculum/books seperately.
1	Alka-Seltzer tablets, 2 pack <i>(CH-ALKASEL)</i>	1	Used to make a lava lamp in a density lab.
1	Cork, No. 9 <i>(CE-CORK09)</i>	1	
1	Graduated Cylinder, polypropylene, 25 ml <i>(CE-CYPP025)</i>	1	
1	Wood block, 1.5 x 1.5 x 0.75" <i>(GS-WOODMD)</i>		Use a piece of wood collected from outside. Order separately or find locally.
1,13	Neodymium Disc Magnets, 0.5", 2 pack <i>(MG-NEODISC)</i>	1	
1,2,3,4,5,11,14	Food Coloring, 4 colors <i>(CH-FOODCOL)</i>	1	
1,2,4,5,8	Cup, clear plastic, 9 oz <i>(PT-CUP9OZ)</i>	6	
1,3,4,8,14	Chemical Splash and Impact Safety Goggles, Child <i>(CE-GOGGLE2)</i>	1	
1,7,8,10	Table Tennis Ball <i>(PT-BALLPP)</i>	1	Use in place of the tennis ball.
1,8,9,11,14	Straw set, 15 pieces <i>(GS-STRAWST)</i>	1	
2	Isopropyl Alcohol, 90%, 30 ml <i>(UN-ISOPALC)</i>		Use household rubbing alcohol to complete lab. Order separately or find at local supply store.
2	Magnesium Sulfate, 100 g <i>(CH-EPSOM)</i>	1	
2	Peat Moss, 60 cubic inches <i>(GS-PEATMOS)</i>		Use topsoil collected from your surrounding environment. Order separately or find locally.
2,11	Jar, 1 gallon, clear plastic <i>(BE-JAR1GAL)</i>		Any large clear container with a lid will work. Order separately or find at local supply store.
2,4,6,7,9,11,12,14	Balloon Set of 9 <i>(GS-BALLOON)</i>	1	
2,5,7	Pebbles, fine gravel, 1 lb. <i>(GS-PEBBLE)</i>		Collect pebbles from your surrounding environment. Order separately or find locally.
2,5,8	Sand, coarse, 1 lb <i>(GS-SANDCRS)</i>		You need a large amount of course sand to complete lab 8. Purchase at a local hardware store.
3	Hydrogen Peroxide 30%, 30 ml <i>(UN-PEROXID)</i>		Optional item. Household peroxide will work for this lab. Purchase only if you want to view a stronger reaction. Order separately.
3	Potassium Iodide, 30 g <i>(CH-KI)</i>		Optional item. Purchase only if you want to view a stronger reaction than yeast. Order separately.
3	Yeast, packet <i>(LM-YEAST)</i>	1	
3,4	Safety Gloves, size 7 - 7.5 Small <i>(CE-SGLOVE)</i>	1	

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3,4,11	School Glue, 4oz (PT-SCHGLUE)	1	Purchase if you do not want to purchase locally
4	Acetone, 30 ml (UN1090)	1	
4	Litmus Paper, blue, 100 strips (CH-LITBLUE)	1	
4	Litmus Paper, red, 100 strips (CH-LITRED)	1	
4	Potassium Nitrate, 30 g (UN1486)		Lab omitted due to cost. Purchase 4 of the potassium nitrate if you want to complete the lab. Order separately.
4	Sodium Tetraborate, 30 g (CH-NA2B4O7)	1	
4	Styrofoam Cup, 8 oz, each (PT-STYRCUP)	5	
4,11	Glass Jar, 16 oz size (GS-JAR16OZ)		Use any glass jar 16oz. Order separately or find at local supply store.
4,11	Magnifying Glass, 2", 3X Lens (OP-MAGNIFY)	1	
4,5	Alum, 100 g (CH-ALUM)		You will need a large amount of alum to complete lab 4. Purchase at a local grocery store. Order separately or find at local supply store.
4,5	Digital Stop Watch, 2" (ME-STOPWAT)		Any watch with a second hand will work. Order separately.
4,5,8,9,14	Rubber bands, 1.4 oz. bag (GS-RUBBAND)		Use rubber bands you have at home to complete labs. Order separately or find at local supply store.
4,7,14	String, heavy cord, 25' (MC-STRING)		Use string available in your home to complete these labs. Order separately or find at local supply store.
4,8,11	Thermometer, aluminum back (ME-THERMME)	1	Divide the lab into parts and complete one part then the other.
4,8,14	Owl Pellet Probe 6" (PT-OWLPROB)	7	
5	Beaker, glass, 1000 ml (CE-BE1000)		Purchase if you do not have a glass vase or large clear glass. Order separately.
5	Sand, fine, 1 lb. (GS-SANDFIN)	1	
5,6	Aluminum Pie Plate, 9" diameter (PT-PIEPAN9)		Use any aluminum pie plate. Order separately or find at local supply store.
5,6	Chalk (calcium carbonate), Non-Toxic (CH-CHALK)	1	
6	Marbles, pack of 15 (GS-MARBLSM)	1	
6	Straw, 5/16" diameter (PT-CKSTR14)	1	
6,11	Clay, modeling, yellow, 4 oz. stick (GS-CLAYYEL)	1	Use in place of a raw egg in experiment 6.
6,12	Cardboard Craft Tube 1.75 in x 4.5 in (PT-CRFTTUB)		Purchase if you do not have toilet paper or paper towel tube. Experiment 10 requires 3. Order separately.
7,13	Toy car (MC-TOYCAR)		Purchase if you do not have a toy car at home. Order separately or find at local supply store.
8	Baking soda, 50 g (CH-BSODA50)		Use household baking soda to complete experiment. Orders separately or find at local supply store.
8	Funnel, plastic, 65 mm dia. (CE-FUNNEL)		Use a piece of paper to create a funnel for this project. Order separately.
8	Washers, 1", 5 pack (GS-WASHERS)	1	
8,14	Spool, wooden, 1" x 3/4" (PT-SPOOL)	1	
9	Card stock, 110#, 8-1/2" x 11", white (PT-CARDSTK)		Use any card stock. Order separately or find at local supply store.
9,11	Candle, 4" white (OP-CANDLE)		Purchase if you do not want to purchase locally. Order separately or find at local supply store.

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9,11	Matches, pack of 32 (GS-MATCHES)		Use any matches. Order separately or find at local supply store.
10	Cellophane, 3 pack (GS-CELLO)	1	
10	Prism, glass, 25mm x 75mm (OP-PRISM)		Items omitted from kit due to cost. Purchase if you would like to complete the lab. Order separately.
10,12	Mirror, glass plane, 4"x 2" (OP-MIRROR4)		Use household mirrors to complete this lab. Order separately.
11	Bottle, 500 ml (16 oz), amber glass, Boston round (CE-BTAG500)		Purchase if you do not have a narrow neck glass bottle at home. Order separately.
11	Clear Plastic Film Canister (GS-FILMCAN)		Purchase if you do not have small plastic storage containers. Order separately or find at local supply store.
11,13,14	Nail assortment, 30 pieces (GS-NAILS)	1	
12	Battery, 6 volt (EL-BATT6)	1	
12	Brass Brads, 3/8", 100 pack (GS-BRADS)	1	
12	Bulb holder, 1-bulb (EL-BULBHD1)	3	
12	Bulb, screw style, 6.3-volt (EL-LAMP6)	3	
12	LED, red, diffuse type, 5 mm (EL-LEDRED)	1	
12	Sandpaper, 1 sheet medium grit (PT-SANDPAP)	1	
12,13	Battery, D, heavy duty, 2 pack (EL-BATTD2)	1	
12,13	Copper Wire, insulated, #24, 15' (EL-WIRE24H)	1	
12,13,14	9 X 12 Corrugated Cardboard Sheet (PT-CARDBRD)	1	Use the box the kit comes in to complete these labs.
12,13,14	Paper Clips, small size, box (GS-PCLIPSM)		Any paperclip will work. Order separately or find at local supply store.
13	Bar Magnets, 1.2" ceramic, 2 pack (MG-BAR1C)	1	
13	Battery, AA, alkaline, 4 pack (EL-BALK-AA)	1	
13	Compass, magnetic, 1.5" (GS-COMPASS)	1	
13	Copper Wire, bare, #24, 25' (EL-WIRE24C)	1	
13	Iron Metal Filings, 30 g (CH-IRON)	1	
13	Ring Magnet, 1.14" OD (MG-RINGLG)	1	
14	Ruler, 30 cm (ME-RULER)		Use ruler from home 30CM. Order separately or find at local supply store.
14	Vinyl Tubing, 4.8 mm, 2' long (CE-TUBEPLS)	1	
14	Wood Ramp, economy (MC-RAMP1)		Purchase if you do not have access to a wood ramp. Order separately or find locally.

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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