



**KIT CONTENTS LIST FOR USE WITH: Discovering Design with Earth Science  
Berean Builders**

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

<b><u>Text Reference</u></b>	<b><u>Item Description</u></b>	<b><u>Item Quantity</u></b>	<b><u>Notes</u></b>
1.1	Toothpicks, pack (GS-TOOTHPI)		Household item. Use any toothpicks. Order seapartely or find at local supply store.
1.1, 12.4	4pk Modeling Dough (Play Dough) (GS-PLAYDO4)		Purchase at your local craft store. Order separately or find at local supply store.
1.1, 2.3, 11.2, 13.3, 16.1	Invisible Tape with dispenser, 3/4" X 300" (GS-TAPECLR)		Household item. Use tape from home or find at local supply store.
1.1, 2.4, 5.3, 5.5, 15.2	Aluminum foil sheet, 9 x 10 (PT-FOIL)		Household item, use foil from home. Find at local supply store.
1.1, 4.3, 6.1, 13.1, 16.1	Drawing Paper, white, 9"x12" (PT-PAPDRAW)		Household item, use drawing paper from home. Order separately or find at local supply store.
1.2	4x6 ziplock bags, 2 mil (PK-ZIP4X6)		Household item, use any 4x6 bag. find at local supply store.
1.2, 1.3, 2.3, 2.5, 7.3, 8.1, 8.3	Measuring Cups, Set of 5 (CE-MECUP)		Household item, use measuring cups from home. Order separately or find at local supply store.
1.2, 5.2, 5.3, 10.5, 15.1	6x9 ziplock bags, 2 mil (PK-ZIP6X9)		Household item, use any 6x9 bag. find at local supply store.
1.2, 7.2	Hydrogen Peroxide 6%, 30 ml (CH-H2O2)	1	
1.2, 7.2	Yeast, packet (LM-YEAST)	2	
1.2, 7.2, 7.3, 8.1, 9.1, 10.5	Measuring Spoons, Set of 6 (CE-MESPOON)		Household item, use measuring spoons from home. Order separately or find at local supply store.
1.3, 8.2	M&M's Fun Size (PT-CANMMS)		Purchase at local store. Two M&Ms of each color are required for Experiment 1.3. The other M&Ms can be substituted by 60 items of the same type with two faces for Experiment 8.2. find at local supply store.
10.3	River Rock Specimen (RM-RIVRCK)		Use any rock from the kit or outside that is approximately 35 grams. Find locally.
10.4	Ice Cube Tray, 12 wells, assorted colors (GS-ICETRAY)		Use any two small containers that can go in the freezer or an ice cube tray. Find at local supply store or order separately.
10.4, 10.5	Nu-Salt, salt substitute, 3 oz (CH-SALTSUB)		Use household salt.
11.1, 15.3	Straws, clear plastic (PT-STRAWCL)	2	
11.2	Ball, steel, 0.5" (MC-BALLS2S)		Use small ball or marble that can fit in craft tube. Order separately or find at local supply store.
11.2	Cardboard Craft Tube 1.75 in x 4.5 in (PT-CRFTTUB)		Use toilet paper tube or purchase from local craft store.
11.2, 12.2, 13.2	Aluminum Pie Plate, 9" diameter (PT-PIEPAN9)		Household item, use any aluminum pie pan. Order separately or find at local supply store.
11.4, 13.2	Matches, pack of 32 (GS-MATCHES)	1	Household item. Can use matches or lighter. Order separately or find at local supply store.
12.1	Dowel, 1/8", 12" long (PT-DOWL125)		Use a stick from outside.
12.1	Newsprint, 9"X12" (PT-PAPNEWS)	2	
12.4	Straws, flexible plastic (PT-STRAWFL)	1	

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13.1, 15.1	String, heavy cord, 25' (MC-STRING)		Purchase thread from a local craft store. Find at local supply store.
13.1, 16.1	Half-Meterstick, 50 cm, hardwood (ME-METER1)		Use ruler or meterstick from home. Order separately or find at local supply store.
13.2	Tea bag, single, plain black tea (PT-TEABAG)	4	
13.3	Construction paper, black (PT-PAPCSBK)	1	
13.3	LED Flashlight, 25 Lumens (OP-LIGHT4)		Household item, use any flashlight. Order separately or find at local supply store.
14.2	Isopropyl Alcohol, 90%, 30 ml (UN-ISOPALC)	1	
15.2	Bulb, incandescent, 100 watt (EL-BULB100)		Household item. Find at local supply store or order separately.
15.2	CD blank (PT-CKWHLCD)	1	
15.2	Insect Display Box (BE-BOXCOLL)		Use cereal box.
15.2, 16.2	Bulb, fluorescent spiral, 13-15 watt (EL-BULB15)		Household item. Find at local supply store or order separately.
16.1	Pack of 4 Crayons (GS-CRAYON4)		Household item, crayons. Order separately or find at local supply store.
16.2	Bulb, LED, 400-740nm (EL-GROLGHT)		Household item, find at local supply store.
16.2	Card stock, 110#, 8-1/2" x 11", white (PT-CARDSTK)		Use index card. Order separately or find at local supply store.
2.1	Funnel, plastic, 65 mm dia. (CE-FUNNEL)	1	
2.1, 2.3, 11.4, 12.1, 12.4, 14.2, 15.3	Clear 17oz bottle with cap (CE-BTCL502)		Household item, use any clear bottle with cap.
2.1, 3.1, 3.4, 4.1, 4.2, 4.3, 4.4, 7.1, 7.4	Magnifying Glass, 2", 3X Lens (OP-MAGNIFY)	1	
2.2, 2.4, 5.5, 13.3	Beaker, glass, 600 ml (CE-BEI0600)		Use large glasses. Order separately.
2.3	Bentonite clay, 4 oz (CH-BNTONIT)	1	
2.3	Coffee Filter (PT-COFFILT)	2	
2.3, 4.3	Sand, fine, 1 lb. (GS-SANDFIN)	1	Use in place of silt.
2.3, 4.3, 15.1	Sand, coarse, 1 lb (GS-SANDCRS)	1	
2.3, 5.2, 5.3, 11.2, 11.4, 13.2, 15.2, 15.3	Scissors, office (GS-SCISSORS)		Household item, use scissors from home.
2.4	Limestone Specimen, Raw Gray (RM-LIMERAW)	1	
2.4, 12.1	Safety Glasses, Child size (CE-SGLASCH)	1	
2.4, 3.4, 9.1, 12.4	5% Acetic Acid solution (Food-Grade Vinegar) (CH-VINEGAR)	1	
2.5	Plaster of paris, 4 oz. (GS-PLASTER)	1	
2.5, 10.3, 11.3, 14.1	Styrofoam Cup, 8 oz, each (PT-STYRCUP)		Household item, Use any styrofoam cups. Find at local supply store.
2.5, 12.1, 14.3	Balloons, medium, 9" (GS-BALLOMD)		Household item use any balloons. Order separately or order separately.
2.5, 7.2, 7.3, 8.1, 8.3, 10.4, 12.4, 13.3	Spatula, stainless steel (CE-SPATULA)		Use spoon. Order separately.
3.1-3.4, 4.1- 4.4, 5.1, 5.5, 7.1, 7.4	Geology Basics Kit - REPACK (RM-GEOBSCKT)	1	Use rocks 7 and 9 from set as Density rocks in Experiment 5.1 and 5.5.
3.2	Plate, ceramic, 1x2" (RM-STREAKC)	1	

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3.2, 3.3	Copper piece (EL-CUDISC)	1	
3.2, 3.3	Streak plate, black, 1x2" (RM-STREAKB)	1	
3.3	Plate, glass, 2x2" (RM-STREAKG)	1	
3.3, 3.4, 11.3, 12.1	Nail, 6D, bright finish (PT-NAIL6F)	1	
3.4, 4.3, 4.4, 5.4, 5.5, 7.2	Bottle, dropping, 15 ml, LDPE (CE-BTP15N)	2	
3.4, 5.2, 5.3	Neodymium Block Magnet, 0.75" x 0.50" x 0.25" (MG-NEOBLOK)	1	
3.4, 5.3, 10.1, 15.3	Paper Clips, small size, box (GS-PCLIPSM)	1	
4.4	Hydrochloric Acid, 12 Molar, 30 ml (UN1789)	1	
4.4	Safety Gloves, size 7 - 7.5 Small (CE-SGLOVE)	1	
5.1, 13.1	Black pen (PT-PENBLK)		Household item, use any black pen. Find at local supply store.
5.1, 5.4, 9.1, 10.2, 10.4, 12.4, 15.1	Digital Pocket Scale, 750 g x 0.1 g (BS-SPB500)	1	
5.1, 5.4, 9.1, 10.2, 10.3, 10.4, 12.4, 15.1	Graduated Cylinder, polypropylene, 100 ml (CE-CYPP100)	1	
5.1, 6.2, 10.2, 13.3	Pipet, disposable, 3 ml (CE-PIPET3S)	2	
5.2, 5.3	Needles, sharps, size 10 (PT-NEEDLES)		Purchase a local craft store.
5.3	Battery, AA, alkaline, 4 pack (EL-BALK-AA)		Household item. Find at local supply store or order separately.
5.3, 10.3, 12.2	Beaker Tongs (CE-TONBEAK)		Use kitchen tongs. Order separately or find at local supply store.
5.4	12x10x4 corrugated shipping box (PK-12X10X4)	1	Use kit box for cardboard.
5.4, 7.2, 10.1, 16.2	Vegetable Oil, 6 oz. (CH-VEGE0IL)		Household item, use vegetable oil from home. Find at local supply store.
5.5	Rubber band, size 16 (PT-RUBBA16)	1	
5.5, 11.1, 11.3	Food Coloring, 4 colors (CH-FOODCOL)		Household item, use food coloring from home. Order separately or find at local supply store.
6.1	Glass Jar, 16 oz size (GS-JAR16OZ)		Use a juice glass. Find at local supply store.
6.2	Can, tin, small (PT-CANSMAL)		Use a juice glass.
6.2	Pepper packet, 0.10 g (ground black pepper) (GS-PEPPER)	5	
7.3	Epsom salt, food grade, 1 lb or 450 g (CH-FGEPSON)	1	
8.1, 12.4	Baking soda, food grade, 1 lb or 450g (CH-BKGSODA)	1	Household item, use baking soda from home. Order separately or find at local supply store.
8.1, 12.4	pH Papers, 1-14 range, 80 pack (CH-PHSTRIP)	1	
8.2	Plastic Kit Box (PT-KITBOX)		Use any plastic container with a lid that can hold your 60 items. Find at local supply store.
8.3, 12.2	Grape Juice, 5.5 oz Can (GS-GRAPEJU)		Use any carbonated beverage in a can for Experiment 8.3, and use the can for Experiment 12.2. Find at local supply store.
9.1	Antacid Tablets, 12 pack (CH-ANTAC12)	1	
Multiple	8oz Distilled Water in bottle (CH-DISTH2O)	32	Use tap water.

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Multiple	Beaker, glass, 250 ml (CE-BE10250)		Use small juice glasses. Order separately.
Multiple	Electric Hot Plate (CE-HOTELEC)		Use oven or stove. Order separately.

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.
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