



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

*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>
1.1	Toothpicks, pack <i>(GS-TOOTHPI)</i>	1	Household item
1.1, 12.4	4pk Modeling Dough (Play Dough) <i>(GS-PLAYDO4)</i>	1	Purchase at your local craft store.
1.1, 2.3, 11.2, 13.3, 16.1	Invisible Tape with dispenser, 3/4" X 300" <i>(GS-TAPECLR)</i>	1	Household item
1.1, 2.4, 5.3, 5.5, 15.2	Aluminum foil sheet, 9 x 10 <i>(PT-FOIL)</i>	6	Household item
1.1, 4.3, 6.1, 13.1, 16.1	Drawing Paper, white, 9"x12" <i>(PT-PAPDRAW)</i>	30	Household item
1.2	4x6 ziplock bags, 2 mil <i>(PK-ZIP4X6)</i>	2	Household item
1.2, 1.3, 2.3, 2.5, 7.3, 8.1, 8.3	Measuring Cups, Set of 5 <i>(CE-MECUP)</i>	1	Household item
1.2, 5.2, 5.3, 10.5, 15.1	6x9 ziplock bags, 2 mil <i>(PK-ZIP6X9)</i>	4	Household item
1.2, 7.2	Hydrogen Peroxide 6%, 30 ml <i>(CH-H2O2)</i>	1	
1.2, 7.2	Yeast, packet <i>(LM-YEAST)</i>	2	
1.2, 7.2, 7.3, 8.1, 9.1, 10.5	Measuring Spoons, Set of 6 <i>(CE-MESPOON)</i>	1	Household item
1.3, 8.2	M&M's Fun Size <i>(PT-CANMMS)</i>	20	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.
10.3	River Rock Specimen <i>(RM-RIVRCK)</i>	1	Use any rock from the kit or outside that is approximately 35 grams.
10.4	Ice Cube Tray, 12 wells, assorted colors <i>(GS-ICETRAY)</i>	1	Use any two small containers that can go in the freezer or an ice cube tray.
10.4, 10.5	Nu-Salt, salt substitute, 3 oz <i>(CH-SALTSUB)</i>	1	Use household salt.
11.1, 15.3	Straws, clear plastic <i>(PT-STRAWCL)</i>	2	
11.2	Ball, steel, 0.5" <i>(MC-BALLS2S)</i>	1	Use small ball or marble that can fit in craft tube.
11.2	Cardboard Craft Tube 1.75 in x 4.5 in <i>(PT-CRFTTUB)</i>	1	Use toilet paper tube or purchase from local craft store.
11.2, 12.2, 13.2	Aluminum Pie Plate, 9" diameter <i>(PT-PIEPAN9)</i>	1	Household item
11.4, 13.2	Matches, pack of 32 <i>(GS-MATCHES)</i>	1	Household item. Can use matches or lighter.
12.1	Dowel, 1/8", 12" long <i>(PT-DOWL125)</i>	1	Use a stick from outside.
12.1	Newsprint, 9"X12" <i>(PT-PAPNEWS)</i>	2	
12.4	Straws, flexible plastic <i>(PT-STRAWFL)</i>	1	
13.1, 15.1	String, heavy cord, 25' <i>(MC-STRING)</i>	1	Purchase thread from a local craft store.

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13.1, 16.1	Half-Meterstick, 50 cm, hardwood (ME-METER1)	1	Use ruler or meterstick.
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)	1	Household item
14.2	Isopropyl Alcohol, 90%, 30 ml (UN-ISOPALC)	1	
15.2	Bulb, incandescent, 100 watt (EL-BULB100)	1	Household item
15.2	CD blank (PT-CKWHLCD)	1	
15.2	Insect Display Box (BE-BOXCOLL)	1	Use cereal box
15.2, 16.2	Bulb, fluorescent spiral, 13-15 watt (EL-BULB15)	2	Household item
16.1	Pack of 4 Crayons (GS-CRAYON4)	1	Household item
16.2	Bulb, LED, 400-740nm (EL-GROLGHT)	1	Household item
16.2	Card stock, 110#, 8-1/2" x 11", white (PT-CARDSTK)	1	Use index card.
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)	6	Household item
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-BE10600)	2	Use large glasses.
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)	1	Household item
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)	5	Household item
2.5, 12.1, 14.3	Balloons, medium, 9" (GS-BALLOMD)	3	Household item
2.5, 7.2, 7.3, 8.1, 8.3, 10.4, 12.4, 13.3	Spatula, stainless steel (CE-SPATULA)	1	Use spoon.
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	
3.2, 3.3	Copper piece (EL-CUDISC)	1	
3.2, 3.3	Streak plate, black, 1x2" (RM-STREAKB)	1	

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
3.3	Plate, glass, 2x2" <i>(RM-STREAKG)</i>	1	
3.3, 3.4, 11.3, 12.1	Nail, 6D, bright finish <i>(PT-NAIL6F)</i>	1	
3.4, 4.3, 4.4, 5.4, 5.5, 7.2	Bottle, dropping, 15 ml, LDPE <i>(CE-BTP15N)</i>	2	
3.4, 5.2, 5.3	Neodymium Block Magnet, 0.75" x 0.50" x 0.25" <i>(MG-NEOBLOK)</i>	1	
3.4, 5.3, 10.1, 15.3	Paper Clips, small size, box <i>(GS-PCLIPSM)</i>	1	
4.4	Hydrochloric Acid, 12 Molar, 30 ml <i>(UN1789)</i>	1	
4.4	Safety Gloves, size 7 - 7.5 Small <i>(CE-SGLOVE)</i>	1	
5.1, 13.1	Black pen <i>(PT-PENBLK)</i>	1	Household item
5.1, 5.4, 9.1, 10.2, 10.4, 12.4, 15.1	Digital Pocket Scale, 750 g x 0.1 g <i>(BS-SPB500)</i>	1	
5.1, 5.4, 9.1, 10.2, 10.3, 10.4, 12.4, 15.1	Graduated Cylinder, polypropylene, 100 ml <i>(CE-CYPP100)</i>	1	
5.1, 6.2, 10.2, 13.3	Pipet, disposable, 3 ml <i>(CE-PIPET3S)</i>	2	
5.2, 5.3	Needles, sharps, size 10 <i>(PT-NEEDLES)</i>	1	Purchase a local craft store.
5.3	Battery, AA, alkaline, 4 pack <i>(EL-BALK-AA)</i>	1	Household item
5.3, 10.3, 12.2	Beaker Tongs <i>(CE-TONBEAK)</i>	1	Use kitchen tongs.
5.4	12x10x4 corrugated shipping box <i>(PK-12X10X4)</i>	1	Use kit box for cardboard.
5.4, 7.2, 10.1, 16.2	Vegetable Oil, 6 oz. <i>(CH-VEGEOL)</i>	2	Household item
5.5	Rubber band, size 16 <i>(PT-RUBBA16)</i>	1	
5.5, 11.1, 11.3	Food Coloring, 4 colors <i>(CH-FOODCOL)</i>	1	Household item
6.1	Glass Jar, 16 oz size <i>(GS-JAR16OZ)</i>	1	Use a juice glass.
6.2	Can, tin, small <i>(PT-CANSMAL)</i>	1	Use a juice glass.
6.2	Pepper packet, 0.10 g (ground black pepper) <i>(GS-PEPPER)</i>	5	
7.3	Epsom salt, food grade, 1 lb or 450 g <i>(CH-FGEPSON)</i>	1	
8.1, 12.4	Baking soda, food grade, 1 lb or 450g <i>(CH-BKGSODA)</i>	1	Household item
8.1, 12.4	pH Papers, 1-14 range, 80 pack <i>(CH-PHSTRIP)</i>	1	
8.2	Plastic Kit Box <i>(PT-KITBOX)</i>	1	Use any plastic container with a lid that can hold your 60 items.
8.3, 12.2	Grape Juice, 5.5 oz Can <i>(GS-GRAPEJU)</i>	2	Use any carbonated beverage in a can for Experiment 8.3, and use the can for Experiment 12.2.
9.1	Antacid Tablets, 12 pack <i>(CH-ANTAC12)</i>	1	
Multiple	8oz Distilled Water in bottle <i>(CH-DISTH2O)</i>	32	Use tap water
Multiple	Beaker, glass, 250 ml <i>(CE-BEI0250)</i>	3	Use small juice glasses.
Multiple	Electric Hot Plate <i>(CE-HOTELEC)</i>	1	Use oven or stove.

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.
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