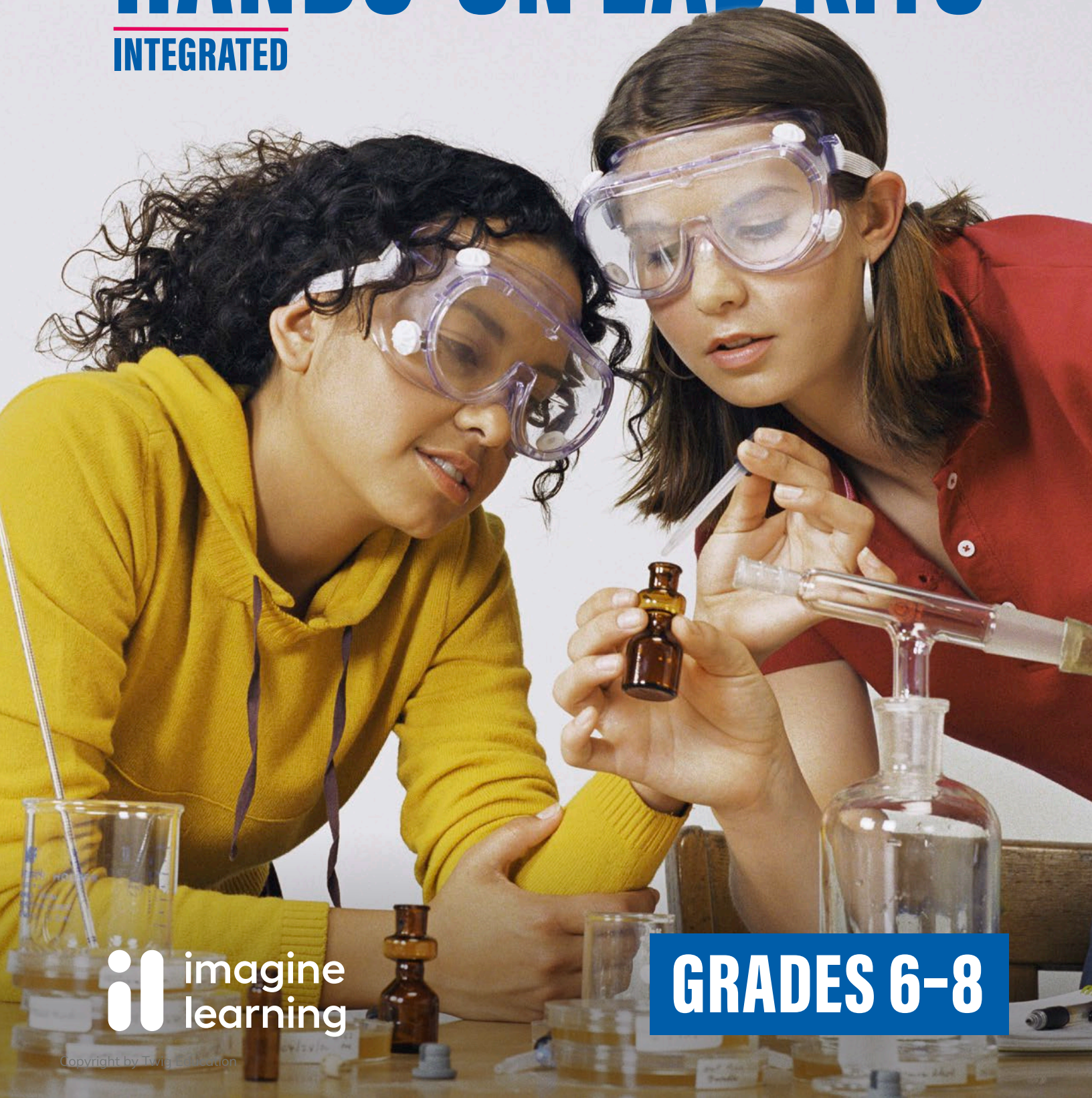
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HANDS-ON LAB KITS

INTEGRATED



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GRADES 6-8

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GRADES 6–8 HANDS-ON LAB KITS

With Twig Science hands-on labs, students will:

- Learn through inquiry-based investigations
- Experience a range of STEM roles
- Develop higher-order thinking skills
- Apply Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts
- Solve problems and design solutions





Twig Science hands-on lab kits are clearly labeled, simply organized, and available for each grade and each module. At each grade, you'll find a grade equipment kit that includes all of the basic nonconsumable tools you'll need, such as beakers, heat lamps, hot plates, goggles, scales, and thermometers. For each module, you'll find a module kit that includes all of the consumable and nonconsumable materials you'll need, such as batteries, bolts, cardboard, DC generators, dowels, fishing line, magnet wire, tape, and washers. Module refill kits for materials that are hard to source, or need to be replenished annually because they have a limited shelf life, are also available.

A sample grade equipment kit is shown. All grade equipment kits support a class of up to 36 students.



A sample module kit is shown. All module kits support up to 36 students for 3 classes taught at different times. Each module refill kit also supports up to 36 students for 3 classes.



Module teacher-supplied materials lists are provided to help you prepare accordingly.



Teacher-Supplied Materials

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Are They Among Us?

Materials	How Material is Used	Quantity	Lesson	Session
Scissors	Used to cut up the History of the Earth in a Day Script handout	1	1	6
Computers or tablets	Used to show a video	9, 1 per station	1	4
	Used to view the digital interactive	18, 1 per pair	2	2
			2	3
			2	9
	Used to do research	18, 1 per pair	2	8
Envelopes	Each envelope is filled with 50 random pieces of the jigsaw and distributed to each team	9 envelopes	1	5
	Each envelope is filled with sections of the History of the Earth in a Day Script handout		1	6
Jigsaw puzzle **Note:** Must have 1,000 or more pieces	Used by students who have different pieces and have to guess what the puzzle image is	1	1	5
Colored pencils or markers	Used to shade groups of bones of the skeleton drawings	A selection of different colors per student	2	3

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The following table shows the approximate number of boxes of tools and materials per grade and per module.

GRADE 6	
KIT	**BOXES**
Equipment	3
Under the Microscope Module	1
CreATe Network Module	2
The Great Air Race Module	1
Model Earth Module	2
Life Through a Lens Module	1
North Island Rescue Module	2
Landscape of Fear Module	3
The Heat Is On Module	1
Emergency Hydration Module	2

GRADE 7	
KIT	**BOXES**
Equipment	3
The Resource Race Module	2
The Plastic Tide Module	1
Volcano Hunters Module	2
Dinosaur Trail Module	2
Science on the Main Stage Module	4
Turtle SOS Module	3
Future Food Module	2
A Place Called Home Module	1
The Green Monster Module	2

GRADE 8	
KIT	**BOXES**
Equipment	3
Ocean Powered Module	2
Asteroid Alert! Module	3
Collision Course Module	3
Movie Magic Module	2
Are They Among Us? Module	1
Survival Stories Module	1
Amazon of the Oceans Module	1
Into the Abyss Module	2
The Bees' Needs Module	3

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EQUIPMENT KIT—GRADE 6

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Clear plastic containers (plastic shoeboxes) 9 ☐	**Craft knives** 6 ☐	**Digital scales** 9 500 g ☐	**Stopwatches** 9 ☐
			
Funnels 9 ☐	**Hot glue guns** 9 ☐	**Hot plates (single burner)** 3 ☐	**Thermometers (partial immersion)** 3 ☐
			
Thermometers (metal back) 18 ☐	**Beakers** 100 mL 12 ☐	**Beakers** 250 mL, 12 pack 1 ☐	**Beakers** 500 mL 18 ☐
			
Light bulbs 125 W 6 ☐	**Heat lamps** 3 ☐	**Non-latex gloves** 100 pack 6 ☐	**Pitchers** 3 ☐

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EQUIPMENT KIT—GRADE 6



Safety goggles 37

Reuse this item

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EQUIPMENT KIT—GRADE 6

Item name		Module name							
		Under the Microscope	CreATe Network	The Great Air Race	Model Earth	Life Through a Lens	North Island Rescue	The Heat Is On	Emergency Hydration
Beakers, 100 mL	●			✓			✓		✓
Beakers, 250 mL	●					✓		✓	✓
Beakers, 500 mL	●							✓	
Clear plastic containers (plastic shoeboxes)	●			✓	✓	✓		✓	
Light bulbs, 125 W	●				✓			✓	
Craft knives	●	✓	✓						
Digital scales	●					✓	✓		✓
Stopwatches	●	✓				✓	✓	✓	
Funnels	●				✓		✓		✓
Heat lamps	●				✓			✓	
Hot glue guns	●		✓				✓		
Hot plates (single burner)	●			✓					✓
Non-latex gloves		✓					✓		✓
Pitchers	●				✓	✓		✓	✓
Safety goggles	●	✓	✓	✓	✓	✓	✓	✓	✓
Thermometers (partial immersion)	●							✓	
Thermometers (metal back)	●			✓	✓	✓		✓	

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UNDER THE MICROSCOPE
MODULE KIT

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Thick cardboard 12 9” x 12” ☐	**Paper fasteners** 1 100 pack ☐	**Universal bobbins** 4 10 pack ☐	**String** 1 Spool ☐
			
Masking tape 1 ☐	**Duct tape** 2 ☐	**Balloons** 1 15 pack ☐	**Plastic tubing** 1 8 ft. ☐
			
Rubber bands 1 1/4 lb. pack ☐	**Glucose testing strips with guide** 1 100 packs ☐	**Trays** 9 ☐	**Slings** 2 ☐
			
Cold compresses 6 ☐	**Compression wraps** 4 2” x 5 yds ☐	**Gauze bandages** 2 4.5” x 4 yds ☐	**Batteries** 2 D size ☐

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UNDER THE MICROSCOPE

MODULE KIT

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Battery holders 2 D size, single cell	**Alligator clips with wires** 4 12”	**Lamp bulbs** 2 1.5 V	**Bulb holders** 2
			
Strainers 2	**Pony beads** 60 (assorted colors)	**Paper clips (assorted colors)** 1 150 pack	**Food storage bags** 2 6” x 6”
			
Plastic petri dishes 9	**Modeling clay** 10 (assorted colors)		

● Reuse this item

■ Item is in the Refill Kit

⚠ Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

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UNDER THE MICROSCOPE

MODULE KIT

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Lesson		1								2						3					
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6
Thick cardboard	●		✓																		
Paper fasteners	●		✓																		
Universal bobbins	●		✓																		
String	●		✓															✓			
Masking tape			✓																		
Duct tape				✓																	
Balloons	●			✓																	
Plastic tubing	●			✓																	
Rubber bands				✓																	
Glucose testing strips with guide	■ ⚠					✓															
Trays	●					✓															
Slings	●							✓													
Cold compresses	■							✓													
Compression wraps	●							✓													
Gauze bandages	●							✓													
Batteries	●																	✓			
Battery holders	●																	✓			
Alligator clips with wires	●																	✓			
Light bulbs	●																	✓			
Bulb holders	●																	✓			
Strainers	●																	✓			
Pony beads (assorted colors)	●																	✓			
Paper clips (assorted colors)	●																	✓			
Food storage bags	●																	✓			
Plastic petri dishes	●																		✓		
Modeling clay (assorted colors)																			✓		

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CREATE NETWORK
MODULE KIT

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 **Jumbo craft sticks** 1 500 pack	 **Hole punches** 4	 **Hex bolts** 1 270 pack	 **Hex nuts** 1 270 pack
 **Rubber bands** 2 1/4 lb. pack	 **Masking tape** 12	 **Hot glue gun sticks** 6 15 pack	 **Steel dowels** 1 18 pack
 **Cardboard sheets** 72 16.5” x 11.5”	 **Cardboard poster tubes** 12 2”x 18”	 **Duct tape** 12	 **Compression wraps** 18 2” x 5 yds
 **Sponges** 3 4 pack	 **Bubble wrapping** 3 12” x 6”	 **String** 12 Spool	 **Long bolts and nuts** 1 9 pack

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CREATE NETWORK
MODULE KIT

ISBN: 978-1-64977-566-5

		
Paper drinking straws 3 100 pack ☐	**Zip ties** 5 100 pack ☐	**Chopsticks** 54 Pair ☐

● Reuse this item

■ Item is in the Refill Kit

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CREATE NETWORK
MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Jumbo craft sticks	■				✓	✓	✓	✓	✓		
Hole punches	●				✓	✓	✓	✓	✓		
Hex bolts	■				✓	✓	✓	✓	✓		
Hex nuts	■				✓	✓	✓	✓	✓		
Rubber bands					✓	✓	✓	✓	✓		
Masking tape					✓	✓	✓	✓	✓		
Hot glue gun sticks					✓	✓	✓	✓	✓		
Steel dowels											
Cardboard sheets	■				✓	✓	✓	✓	✓		
Cardboard poster tubes	■				✓	✓	✓	✓	✓		
Duct tape					✓	✓	✓	✓	✓		
Compression wraps	●				✓	✓	✓	✓	✓		
Sponges	■				✓	✓	✓	✓	✓		
Bubble wrapping	■				✓	✓	✓	✓	✓		
String					✓	✓	✓	✓	✓		
Long bolts and nuts	■				✓	✓	✓	✓	✓		
Paper straws					✓	✓	✓	✓	✓		
Zip ties					✓	✓	✓	✓	✓		
Chopsticks					✓	✓	✓	✓	✓		

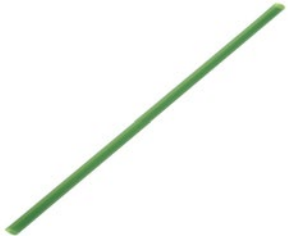
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THE GREAT AIR RACE
MODULE KIT

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Plastic wrap 3 Roll ☐	**Glass canning jars** 1 12 case ☐	**Rubber bands** 3 1/4 lb. pack ☐	**Clear paint tray liners** 3 ☐
			
Semipermeable groundsheet 1 18” x 3 yds ☐	**Gravel** 1 5 lb. ☐	**Soil** 1 5 lb. ☐	**Jugs** 3 1/2 gallon ☐
			
Cotton pads 1 100 pack ☐	**String** 1 Spool ☐	**Glass bottle** 1 12 oz. ☐	**Balloons** 4 25 pack ☐
			
Straws 1 100 pack ☐	**Pony beads** 1 200 pack ☐	**Clear plastic container** 1 1 gallon ☐	**Blue food coloring** 1 2 oz. ☐

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THE GREAT AIR RACE

MODULE KIT

	
Red food coloring 1 2 oz.	**Foam sheets** 3 9” x 12”

● Reuse this item

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THE GREAT AIR RACE

MODULE KIT

Lesson		1								2							3				
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5
Plastic wrap		✓	✓																		
Glass canning jars	●	✓	✓	✓						✓											
Rubber bands	●	✓	✓		✓					✓											
Clear paint tray liners	●			✓																	
Semipermeable groundsheet	●			✓																	
Gravel	●			✓																	
Soil	●			✓																	
Jugs	●			✓																	
Cotton pads					✓																
String					✓																
Glass bottle	●									✓											
Balloons										✓											
Straws										✓											
Pony beads	●									✓											
Clear plastic container	●													✓							
Blue food coloring														✓							
Red food coloring														✓							
Foam sheets	●													✓							

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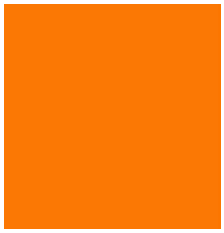
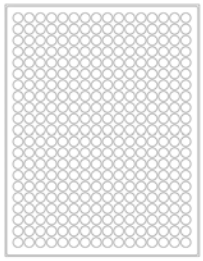
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MODEL EARTH
MODULE KIT

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Adhesive putty 9	**Flashlights** 18	**Pony beads** 1 1000 pack	**Clear plastic cups** 1 50 pack
			
Soil 1 5 lb.	**Pre-cut continent shapes** 3 7 pieces	**Blue tape** 7 0.71” x 60 yds	**Brown tape** 7 2” x 60 yds
			
Acetate sheets 4 100 pack	**Bamboo skewers** 2 10”, 100 pack	**Orange cardstock** 3 50 pack	**Round sticky labels** 1 200 sheet
			
Blue cardstock 2 50 pack	**Air convection apparatus** 1	**Tealights** 3	**Inflatable globes** 9

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MODEL EARTH
MODULE KIT

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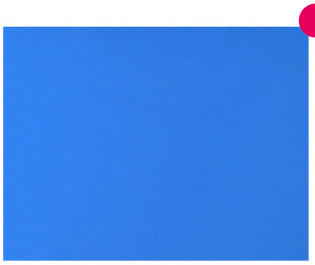
			
Dry-erase markers 5 Assorted colors, 4 pack	**White cardstock** 1 50 pack	**Toothpicks** 1 800 pack	**Small pre-cut arrows** 1 Assorted colors, 200 pack
			
Battery hand fans 9	**Food coloring** 1 Red, blue, green, orange, 4 pack	**Resealable bags** 1 100 pack	**Binder clips** 9
			
Pipettes 9 7 mL	**Flat glass bottles** 18 200 mL	**Salt** 1 4 lbs.	**Measuring cups** 9 Metal, 1/2 cup
			
Confetti 3 1 oz.	**Mineral oil** 1 16 oz.	**Red oil-based paint** 3 4 oz.	**Yellow cardstock** 2 50 pack

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MODEL EARTH
MODULE KIT

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Green cardstock 2 50 pack	**Red cardstock** 2 50 pack	**Blue posterboard** 3	**Fine point markers** 7 Assorted colors, 4 pack

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● Reuse this item

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MODEL EARTH
MODULE KIT

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Lesson		1								2						3					
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6
Adhesive putty								✓	✓					✓						✓	✓
Flashlights	●			✓																	
Pony beads	●			✓																	
Clear plastic cups	●				✓																
Soil	●				✓																
Pre-cut continent outlines	●							✓	✓												
Blue tape								✓	✓												
Brown tape								✓	✓												
Acetate sheets	●							✓	✓					✓						✓	✓
Bamboo skewers								✓	✓					✓							
Orange cardstock	■							✓	✓											✓	✓
Round sticky labels	■							✓	✓												
Blue cardstock	■							✓	✓											✓	✓
Air convection apparatus	●									✓											
Tealights										✓											
Inflatable globes											✓										
Dry-erase markers	●										✓										
White cardstock	■													✓							
Toothpicks														✓							
Small pre-cut arrows	■													✓						✓	✓
Battery hand fans	●															✓	✓		✓		
Food coloring	●															✓	✓		✓		
Resealable bags	●														✓	✓					
Binder clips	●															✓					
Pipettes	●															✓					
Flat glass bottles	●																✓				

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MODEL EARTH
MODULE KIT

Lesson		1								2						3					
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6
Salt	■																✓				
Measuring cups	●																✓		✓		
Confetti																	✓				
Mineral oil	●																		✓		
Red oil-based paint																			✓		
Yellow cardstock	■																			✓	✓
Green cardstock	■																			✓	✓
Red cardstock	■																			✓	✓
Blue posterboard	●																				✓
Fine point markers	●							✓	✓					✓						✓	✓

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LIFE THROUGH A LENS
MODULE KIT

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Red food dye 1 2 oz.	**Pony beads (purple)** 1 50 pack	**Pony beads (clear)** 1 100 pack	**Clear plastic resealable bags** 4 100 pack
			
Pipettes 9	**Small plastic containers** 9 8.75” x 6” x 2”	**Polystyrene cups with lids** 18 12 oz.	**Large aluminium strips** 9 4”
			
Small aluminium strips 9 2”	**Modeling clay** 1 Assorted colors	**Bubble wrapping** 4 Roll	**Deli containers with lids** 1 9 pack
			
Rubber bands 1 1/4 lb. bag			

*Images © AquaPhoenix Scientific

● Reuse this item

■ Item is in the Refill Kit

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LIFE THROUGH A LENS

MODULE KIT

Lesson		1							2								3				
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5
Red food dye	●		✓	✓																	
Pony beads (purple)	●		✓																		
Pony beads (clear)	●		✓																		
Clear plastic resealable bags			✓																		
Pipettes	●		✓	✓																	
Small plastic containers	●			✓																	
Polystyrene cups with lids	●				✓																
Large aluminum strips	●				✓																
Small aluminum strips	●				✓																
Modeling clay	●				✓				✓	✓	✓	✓		✓							
Bubble wrapping											✓	✓									
Deli containers with lids	●										✓	✓									
Rubber bands	●										✓	✓									

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NORTH ISLAND RESCUE

MODULE KIT

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ISBN: 978-1-64977-571-9

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Forceps 6	**Magnifying glasses** 6	**Plates** 18 6 in.	**Cornstarch** 3 1 lb.
			
Glue sticks 8 15 pack	**Masking tape** 12	**Toothpicks** 1 800 pack	**Wooden craft sticks** 4 50 pack
			
Rubber bulbs 18	**Pipettes** 18 7 mL	**Pipe cleaners** 1 12 in., 100 pack	**Blue translucent beads** 10
			
Yellow translucent beads 10	**Orange translucent beads** 10	**Red translucent beads** 10	**Red opaque beads** 10

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NORTH ISLAND RESCUE
MODULE KIT

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Blue opaque beads 10 ☐	**Yellow opaque beads** 10 ☐	**Orange opaque beads** 10 ☐	**Foam spheres** 520 1 in. diameter ☐
			
Black tape 12 ☐	**Brown tape** 12 ☐	**Yellow tape** 12 ☐	**Gray tape** 12 ☐
			
Black flat-backed beads 3 144 pack ☐	**Gray flat-backed beads** 3 144 pack ☐	**Paper baking cups** 5 Assorted colors 72 pack ☐	**Clear tape** 12 ☐
			
White paper 4 50 pack ☐	**Potting compost** 3 1 cup ☐	**Containers (paper cups)** 72 ☐	**Paper filters** 1 200 pack ☐

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NORTH ISLAND RESCUE

MODULE KIT

twig SCIENCE

			
Measuring cylinders 8 100 mL	**Gravel** 1 1 lb.	**Sand** 2 1 lb.	**Clay** 1 1/2 lb.

*Images © AquaPhoenix Scientific

● Reuse this item

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NORTH ISLAND RESCUE

MODULE KIT

twig SCIENCE

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
Forceps	●		✓																		
Magnifying glasses	●		✓																		
Plates			✓																		
Cornstarch			✓																		
Glue sticks			✓			✓															
Masking tape			✓							✓											
Toothpicks			✓			✓															
Wooden craft sticks			✓																		
Rubber bulbs	●		✓																		
Pipettes	●		✓																		
Pipe cleaners				✓																	
Blue translucent beads	●			✓																	
Yellow translucent beads	●			✓																	
Orange translucent beads	●			✓																	
Red translucent beads	●			✓																	
Red opaque beads	●			✓																	
Blue opaque beads	●			✓																	
Yellow opaque beads	●			✓																	
Orange opaque beads	●			✓																	
Foam spheres						✓															
Black tape						✓															
Brown tape						✓															
Yellow tape						✓															
Gray tape						✓															
Black flat-backed beads						✓															
Gray flat-backed beads						✓															
Paper baking cups (assorted colors)	●					✓															
Clear tape	●					✓															

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NORTH ISLAND RESCUE

MODULE KIT

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
White paper						✓															
Potting compost																	✓				
Containers (paper cups)																	✓				
Paper filters (coffee filters)																	✓				
Measuring cylinders	●																✓				
Gravel	●																✓				
Sand	●																✓				
Clay	⚠																✓				

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LANDSCAPE OF FEAR

MODULE KIT

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ISBN: 978-1-64977-570-2

			
Tape 12	**Glue sticks** 12	**Small paper cups** 100 4 oz.	**Medium paper cups** 100 12 oz.
			
Tissue paper 3 Assorted colors, 100 pack	**Craft sticks** 1 1000 pack	**Hook and loop fasteners** 2 100 pack	**Pipe cleaners** 4 12”, 100 pack
			
Pom poms 1 1.4”, 500 pack	**Construction paper** 2 50 pack	**Cardstock** 1 Assorted colors, 100 pack	

*Images © AquaPhoenix Scientific

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LANDSCAPE OF FEAR

MODULE KIT

Lesson	1									
SESSION NUMBER	1	2	3	4	5	6	7	8	9	10
Tape				✓						
Glue sticks				✓						
Small paper cups				✓						
Medium paper cups				✓						
Tissue paper				✓						
Craft sticks				✓						
Hook and loop fasteners				✓						
Pipe cleaners				✓						
Pom poms				✓						
Construction paper				✓						
Cardstock				✓						

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THE HEAT IS ON
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-572-6

*Images © AquaPhoenix Scientific

			
Sticky tape 6	**Pear clips** 36	**Sticky labels** 6 80 sheet	**Hand lenses** 9
			
String 2 Spool	**Paraffin wax candle** 1 12 pack	**Glass jar** 1 12 oz.	**Conical flasks** 3 500 mL
			
Two-hole corks 3	**Plastic tubes** 3 5.5”	**Food coloring** 1	**Plastic containers** 6 48 oz.
			
Modeling clay 9	**Measuring spoons** 9 1 tsp	**Vinegar** 1 32 oz.	**Black card** 1 50 pack

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THE HEAT IS ON
MODULE KIT



Sodium bicarbonate (baking soda)
1 lb.

1

*Images © AquaPhoenix Scientific

- Reuse this item
- Item is in the Refill Kit
- Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

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THE HEAT IS ON
MODULE KIT

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
Sticky tape				✓				✓													
Pear clips	●			✓																	
Sticky labels				✓																	
Hand lenses	●							✓													
String				✓																	
Paraffin wax candle						✓															
Glass jar	●					✓															
Conical flasks	●									✓											
Two-hole corks	●									✓											
Plastic tubes	●									✓											
Food coloring										✓											
Plastic containers	●									✓											
Modeling clay										✓	✓										
Black card	●										✓										
Measuring spoons	●										✓										
Vinegar	■										✓										
Sodium bicarbonate (baking soda)	■ ⚠										✓										

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EMERGENCY HYDRATION
MODULE KIT

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ISBN: 978-1-64977-573-3

			
Soil 450 g — 1	**Nutrient broth powder** 500 g — 1	**Phosphate additive** — 1	**Bottles** 1 L — 6
			
Cotton swabs — 150	**Wax pencils** — 12	**Petri dishes** 13 pack — 3	**Powdered agar** 30 g — 3
			
Sealed containers 100 mL — 18	**Phosphate test kits** 50 pack — 4	**Voltmeters** — 3	**Alligator clips with wires** — 9
			
9 V batteries — 3	**9 V battery connection wires** — 3	**Graphite electrodes** 12 pack — 1	**Shallow plastic trays** — 4

*Images © AquaPhoenix Scientific

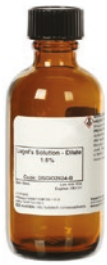
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EMERGENCY HYDRATION
MODULE KIT

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Secchi sticks 9	**Sample tubes** 9	**Parafilm** 1 4” x 125”	**Beaker tongs** 3
			
Silicone mats 3	**Iodine** 1	**Glass stirrers** 3	**Measuring spoons** 9 1/2 tsp
			
Filter paper 2 100 pack	**Gravel** 2 450 g	**Sand** 2 450 g	**Cotton balls** 3 300 pack
			
Activated charcoal 1 450 g	**Carbon paper** 1 100 pack	**Cheesecloth** 3 36” x 70”	**Aluminum sulfate** 1 1 kg

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EMERGENCY HYDRATION

MODULE KIT



Dropper 1

Reuse this item

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EMERGENCY HYDRATION

MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Soil	⚠	✓									
Nutrient broth powder	■ ⚠	✓									
Phosphate additive	⚠	✓									
Bottles	●	✓									
Cotton swabs		✓		✓							
Wax pencils		✓		✓							
Petri dishes	■	✓		✓					✓		
Powdered agar	■ ⚠	✓		✓							
Sealed containers	●	✓									
Phosphate test kits	■ ⚠		✓			✓				✓	
Voltmeters	●		✓				✓				
Alligator clips with wires	●		✓				✓				
9 V batteries	●		✓				✓				
9 V battery connection wires	●		✓				✓				
Graphite electrodes	●		✓				✓				
Shallow plastic trays	●		✓				✓				
Secchi sticks	●		✓		✓						
Sample tubes	●		✓		✓						
Parafilm				✓							
Beaker tongs	●			✓							
Silicone mats	●			✓							
Iodine	■ ⚠			✓							
Glass stirrers	●			✓							
Dropper	●			✓							
Measuring spoons	●					✓	✓			✓	
Filter paper				✓	✓	✓	✓			✓	
Gravel					✓	✓	✓			✓	
Sand					✓	✓	✓			✓	

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EMERGENCY HYDRATION

MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Cotton balls					✓	✓	✓			✓	
Activated charcoal	■ ⚠				✓	✓	✓			✓	
Carbon paper					✓	✓	✓			✓	
Cheesecloth	●				✓	✓	✓			✓	
Aluminum sulfate	■ ⚠					✓	✓			✓	

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EQUIPMENT KIT—GRADE 7

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ISBN: 978-1-64977-597-9

			
Trays (plastic) 9 5 x 7 in.	**Measuring spoons** 18 1 tbsp	**Measuring cups** 10	**Heat lamps** 3
			
Wax pencils 9	**Thermometers (partial immersion)** 12	**Hot plate (single burner)** 1	**Non-latex gloves** 9 100 pack
			
Stopwatches 12	**Digital scales** 12 500 g	**Beakers** 36 100 mL	**Beakers** 2 20 mL
			
Beakers 2 250 mL, 12 pack	**Beakers** 6 400 mL	**Stirring rods** 18	**Light bulbs** 6 125 W

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EQUIPMENT KIT—GRADE 7



Safety goggles 37

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EQUIPMENT KIT—GRADE 7

twig SCIENCE

Item name		Module name								
		The Resource Race	The Plastic Tide	Volcano Hunters	Dinosaur Trail	Science on the Main Stage	Turtle SOS	Future Food	A Place Called Home	The Green Monster
Beakers, 100 mL	●					✓	✓			
Beakers, 20 mL	●					✓				✓
Beakers, 250 mL	●		✓			✓			✓	✓
Beakers, 400 mL	●		✓					✓		
Digital scales	●					✓	✓			
Stopwatches	●			✓	✓		✓	✓		
Safety goggles	●	✓	✓	✓	✓	✓	✓	✓		✓
Stiring rods	●		✓			✓	✓			
Non-latex gloves			✓			✓	✓			✓
Hot plate (single burner)	●		✓	✓		✓				
Thermometers (partial immersion)	●		✓			✓	✓			
Wax pencils	●							✓		✓
Heat lamps	●							✓		✓
Light bulbs, 125 W	●							✓		✓
Measuring cups	●				✓	✓				
Measuring spoons	●		✓	✓	✓	✓	✓	✓		
Trays (plastic)	●				✓					✓

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THE RESOURCE RACE
MODULE KIT

ISBN: 978-1-64977-574-0

			
Roll of paper 3 24” x 10 yds.	**Zinc electrode** 1	**Copper electrode** 1	**Alligator clips with wires** 2
			
Voltmeter 1 0-1 Voltage range	**Transparent plastic containers** 8	**Gravel** 1 5 lbs.	**Blue dye** 1 2 oz.
			
Spray bottles 9 16 oz.	**Soap pumps** 9	**Jugs** 9 32 oz.	

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● Reuse this item

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THE RESOURCE RACE

MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Roll of paper		✓		✓							
Zinc electrode	●								✓		
Copper electrode	●								✓		
Alligator clips with wires	●								✓		
Voltmeter	●								✓		
Transparent plastic containers	●									✓	
Gravel	●									✓	
Blue dye	●									✓	
Spray bottles	●									✓	
Soap pumps	●									✓	
Jugs	●									✓	

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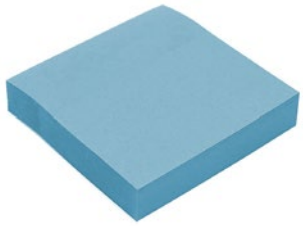
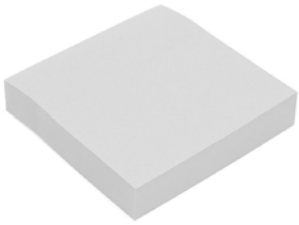
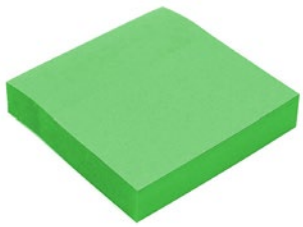
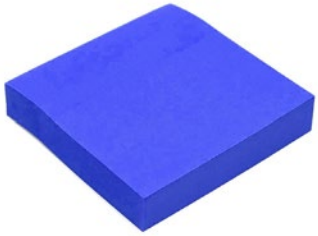
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THE PLASTIC TIDE
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-575-7

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Pebbles 16 oz. — 1	**Shells** 5 oz. — 2	**Iron samples** — 2	**Silicon samples** 10 g — 2
			
Carbon samples (graphite) — 2	**Gallium samples** 20 g — 2	**Sticky notes (red)** 50 pack — 8	**Sticky notes (light blue)** 50 pack — 2
			
Sticky notes (white) 50 pack — 3	**Sticky notes (orange)** 50 pack — 2	**Sticky notes (violet)** 50 pack — 2	**Sticky notes (green)** 50 pack — 2
			
Sticky notes (dark blue) 50 pack — 2	**Stick-and-ball molecule sets** — 5	**Craft sticks** 100 pack — 1	**Calcium chloride** 200 g — 1

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THE PLASTIC TIDE
MODULE KIT

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Sodium alginate 3
30 g



Paper bowls 18



Small plastic containers 9
32 oz.



Ball and ring apparatus 1



Crucibles with lids 2



Votives 6



Heat stands 2



Tongs 4



Thermoplastic polymer beads 1



Paper cups 6



Blue chips 1
50 pack



Red chips 1
50 pack



White chips 1
50 pack



Small bags 36

● Reuse this item

■ Item is in the Refill Kit

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THE PLASTIC TIDE
MODULE KIT

twig SCIENCE

Lesson		1									2						3				
SESSION NUMBER		1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	1	2	3	4	5
Pebbles	●	✓								✓											
Shells	●	✓								✓											
Iron samples	●		✓																		
Silicon samples	● ⚠		✓																		
Carbon samples (graphite)	●		✓																		
Gallium samples	● ⚠		✓								✓										
Sticky notes (red)					✓																
Sticky notes (light blue)					✓																
Sticky notes (white)					✓																
Sticky notes (orange)					✓																
Sticky notes (violet)					✓																
Sticky notes (green)					✓																
Sticky notes (dark blue)					✓																
Stick-and-ball molecule sets	●					✓		✓	✓												
Craft sticks	●					✓															
Calcium chloride	■ ⚠						✓														
Sodium alginate	■ ⚠						✓														
Paper bowls	●						✓														
Small plastic containers	●						✓														
Ball and ring apparatus	●										✓										
Crucibles with lids	●										✓										
Votives											✓										
Heat stands	●						✓				✓										
Tongs	●										✓										
Thermoplastic polymer beads	■										✓										
Paper cups	●										✓										
Blue chips	●																✓				
Red chips	●																✓				
White chips	●																✓				
Small bags	●																✓				

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VOLCANO HUNTERS
MODULE KIT

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ISBN: 978-1-64977-576-4

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Rock samples (shale) 1 9 pack ☐	**Rock samples (limestone)** 1 9 pack ☐	**Rock samples (andesite)** 1 18 pack ☐	**Rock samples (basalt)** 1 9 pack ☐
			
Hand lenses 9 ☐	**Small transparent bags** 2 3” x 5”, 100 pack ☐	**Sticky labels** 3 1 3/4” x 1/2”, sheet ☐	**Schist rock sample** 1 ☐
			
Crayons (gray) 90 ☐	**Crayons (white)** 90 ☐	**Crayon sharpeners** 9 ☐	**Aluminum foil** 1 Roll ☐
			
Sand 1 1 kg ☐	**Sand** 3 100 g ☐	**Gravel** 1 5 lb. bag ☐	**Clear plastic containers** 2 ☐

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VOLCANO HUNTERS
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-576-4

			
Foil containers 6	**Beakers** 2 150 mL	**Core samplers** 30 8” x 1/2”	**Modeling clay** 9 (assorted colors)
			
Plastic jars 2 4 oz.	**All-purpose adhesive** 2 8 oz.	**Plastic table covers** 9	**Vegetable oil** 3 16 oz.
			
Dish soap 3 28 oz.	**Corn syrup** 3 16 oz.	**Ketchup** 2 20 oz.	**Orange food coloring** 1 1 oz.
			
Small containers 50 8 oz.	**Paper straws** 4 100 pack		

Reuse this item

Item is in the Refill Kit

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VOLCANO HUNTERS

MODULE KIT

Lesson		1								2						3					
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6
Rock samples (shale)	●	✓			✓		✓		✓												
Rock samples (limestone)	●	✓			✓		✓		✓												
Rock samples (andesite)	●	✓			✓		✓		✓												
Rock samples (basalt)	●	✓			✓		✓		✓												
Hand lenses	●	✓			✓				✓												
Small transparent bags	●	✓																			
Sticky labels	●	✓																			
Schist rock sample	●				✓		✓		✓												
Crayons (gray)					✓																
Crayons (white)					✓																
Crayon sharpeners	●				✓																
Aluminum foil					✓																
Sand, 1 kg	●			✓																	
Sand, 100 g	●			✓																	
Gravel	●			✓							✓										
Clear plastic containers	●			✓																	
Foil containers	●			✓																	
Beakers	●			✓																	
Core samplers	●			✓																	
Modeling clay				✓																	
Plastic jars	●			✓																	
All-purpose adhesive										✓											
Plastic table covers	●									✓	✓										
Vegetable oil	■										✓	✓									
Dish soap	■										✓										
Corn syrup	■										✓	✓									
Ketchup	■										✓	✓									
Orange food coloring											✓										
Small containers	●										✓	✓									
Paper straws												✓									

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DINOSAUR TRAIL
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-577-1

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Foam boards 27 8.5” x 11”	**Craft knife** 1	**Protractors** 9	**Long containers** 5 10 1/4” x 6 3/8” x 4”
			
Gravel 1 5 lb.	**Sand** 1 5 lb.	**Adhesive putty** 3	**Small plastic dinosaurs** 30
			
Foil containers with lids 50 8” x 8”	**Paper straws** 2 100 pack	**Yellow sand** 2 2 lb.	**Steel ball bearings** 9 1/2”
			
Aluminum pans 9 13” x 9” x 2”	**Marbles** 9 1/2”	**Wooden beads** 9 12 mm	**Open-celled foam sheets** 9

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DINOSAUR TRAIL
MODULE KIT

twig SCIENCE

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Small containers 57 8 oz.	**Borax** 1 1 lb.	**White glue** 4 8 oz.	**Baby oil** 1 6.5 oz.

● Reuse this item

■ Item is in the Refill Kit

⚠ Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

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DINOSAUR TRAIL
MODULE KIT

Lesson		1								2						3					
SESSION NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	1	2	3	4	5	6
Foam boards	■	✓										✓									
Craft knife	●	✓																			
Protractors	●											✓									
Long containers	●	✓		✓								✓									
Gravel	●	✓																			
Sand	●	✓																			
Adhesive putty	●	✓																			
Small plastic dinosaurs	●	✓																			
Foil containers with lids		✓																			
Paper straws		✓										✓									
Yellow sand	●		✓																		
Steel ball bearings	●		✓																		
Aluminum pans	●		✓																		
Marbles	●		✓																		
Wooden beads	●		✓																		
Open-celled foam sheets	■			✓																	
Small containers	●	✓	✓									✓									
Borax	■ ⚠											✓									
Glue	■											✓									
Baby oil	■											✓									

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SCIENCE ON THE MAIN STAGE

MODULE KIT

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ISBN: 978-1-64977-578-8

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Potassium hydroxide powder 50 g — 1	**Dextrose powder** 40 g — 1	**Clear plastic bottle with lid** 500 mL — 1	**Methylene blue solution** 15 mL — 1
			
Clear plastic bottle with lid 354 mL — 1	**Distilled water** 500 mL — 3	**Sodium hydroxide** 30 g — 1	**Indigo carmine solution** 300 mL — 1
			
Glue 5 oz. — 27	**Liquid starch** 1 L — 1	**Food coloring (assorted colors)** 4 pack — 3	**Small measuring cups** 200 mL — 27
			
Baby oil (mineral oil) 16 oz. — 3	**Plastic bags** 6” x 6”, 100 pack — 1	**Rock salt** 4 lb. — 1	**Sodium polyacrylate** 100 g — 1

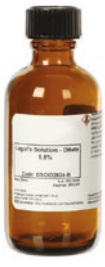
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SCIENCE ON THE MAIN STAGE

MODULE KIT

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Chemical spatulas 18	**Sodium carbonate** 1	**Magnesium sulfate** 1 454 g	**Magnesium carbonate** 1 100 g
			
Filter papers 1 100 pack	**Funnels** 9 100 mm	**Clear plastic cups** 2 9 oz., 50 pack	**Flasks** 3 1000 mL
			
Sugar 2 1 lb.	**White vinegar** 5 32 oz.	**Lemon juice** 1 1 gal.	**Baking soda** 1 1 lb.
			
Pipettes 19 7 mL	**Bottles with lids** 9 15 mL	**Iodine solution** 1 60 mL	**Vitamin C solution** 1 1 L

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SCIENCE ON THE MAIN STAGE

MODULE KIT

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Starch solution 1 L — 1	**Hydrogen peroxide** 16 oz. — 1	**Iron filings** 100 g — 3	**Dishes** — 27
			
Plastic wrap Roll — 3	**Hydrochloric acid** 1 L — 1	**Zinc granules** 200 g — 1	**Rack of 12 test tubes with stoppers** — 1
			
Splints 100 pack — 1	**Potassium permanganate** 140 g — 1	**Glycerin** 150 mL — 1	**Foil cups** 4 oz., 50 pack — 1
			
Graduated cylinders 100 mL — 9	**Paper towels** Roll — 1	**Copper pennies** — 10	**Heatproof mats** — 9

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SCIENCE ON THE MAIN STAGE

MODULE KIT

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Metal nut 1	**Die** 1	**Iron density cubes** 9	**Aluminum density cubes** 9
			
Sodium chloride 1 30 g	**Zinc chloride solution** 1 540 mL	**Tongs** 1 Small	

- Reuse this item
- Item is in the Refill Kit
- ⚠ Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

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SCIENCE ON THE MAIN STAGE

MODULE KIT

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Lesson		1										2									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
Potassium hydroxide powder	■ ⚠	✓																			
Dextrose powder	■ ⚠	✓																			
Clear plastic bottle with lid, 500 mL	● ⚠	✓																			
Methylene blue solution	■ ⚠	✓																			
Clear plastic bottle with lid, 354 mL	●	✓																			
Distilled water	■ ⚠	✓																✓			
Sodium hydroxide	■ ⚠	✓																			
Indigo carmine solution	■ ⚠	✓																			
Glue	■		✓																		
Liquid starch	■ ⚠		✓																		
Food coloring (assorted colors)	■		✓																		
Small measuring cups, 200 mL	●		✓	✓						✓											
Baby oil (mineral oil)	■			✓																	
Plastic bags	●			✓																	
Rock salt	■			✓																	
Sodium polyacrylate	■ ⚠			✓																	
Chemical spatulas	●			✓		✓		✓													
Sodium carbonate	■ ⚠					✓															
Magnesium sulfate	■ ⚠					✓															
Magnesium carbonate	■ ⚠					✓															
Filter papers	■					✓															
Funnels	●					✓															
Clear plastic cups	●						✓											✓			
Flasks	●						✓														
Sugar	■						✓														
White vinegar	■ ⚠						✓							✓				✓			
Lemon juice	■ ⚠						✓														

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SCIENCE ON THE MAIN STAGE

MODULE KIT

Lesson		1										2									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
Baking soda	■ ⚠						✓							✓							
Pipettes	●						✓	✓													
Bottles with lids							✓	✓													
Iodine solution	■						✓														
Vitamin C solution	■ ⚠						✓														
Starch solution	■ ⚠						✓														
Hydrogen peroxide	■ ⚠						✓														
Iron filings	■ ⚠							✓													
Dishes	●							✓													
Plastic wrap								✓													
Hydrochloric acid	■ ⚠					✓		✓										✓			
Zinc granules	■ ⚠							✓										✓			
Rack of 12 test tubes with stoppers	●							✓													
Splints	■							✓													
Potassium permanganate	■ ⚠							✓													
Glycerin	■ ⚠							✓													
Foil cups	■							✓													
Graduated cylinders	●																	✓			
Paper towels	●													✓				✓			
Copper pennies	■																	✓			
Heatproof mats	●							✓													
Metal nut	●									✓											
Die	●									✓											
Iron density cubes	●									✓											
Aluminum density cubes	●									✓											
Sodium chloride	■																	✓			
Zinc chloride solution	■																	✓			
Tongs	●																	✓			

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TURTLE SOS
MODULE KIT

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ISBN: 978-1-64977-579-5

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Cardboard boxes 27 8” x 6” x 3”	**Hot packs** 81	**Cold packs** 27	**Calcium chloride** 1 10 lb.
			
Sodium sulfate 1 750 g	**Ammonium chloride** 1 750 g	**Citric acid** 2 1 lb.	**Baking soda** 2 1 lb. pack
			
Aluminum foil 3 12” x 25”, roll	**Cotton balls** 3 300 pack	**Foam sheets** 8 5” x 8”, 40 pack	**Felt fabric** 12 9” x 12”, 25 pack
			
Table tennis balls 27	**Sand** 1 5 lb.	**Pitchers** 4	

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TURTLE SOS
MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Cardboard boxes	■	✓					✓		✓	✓	
Hot packs				✓							
Cold packs	●			✓							
Calcium chloride	■ ⚠			✓		✓	✓		✓	✓	
Sodium sulfate	■ ⚠			✓							
Ammonium chloride	■ ⚠			✓							
Citric acid	■ ⚠			✓							
Baking soda	■ ⚠			✓							
Aluminum foil						✓	✓		✓	✓	
Cotton balls						✓	✓		✓	✓	
Foam sheets	●					✓	✓		✓	✓	
Felt fabric	●					✓	✓		✓	✓	
Table tennis balls	●						✓		✓	✓	
Sand	●						✓		✓	✓	
Pitchers	●										

● Reuse this item

■ Item is in the Refill Kit

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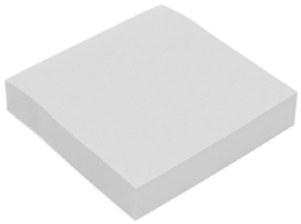
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FUTURE FOOD
MODULE KIT

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ISBN: 978-1-64977-580-1

			
Pondweed (voucher for 12 elodea) 3	**Freestanding test tubes** 9 100 mL	**White sticky notes** 27 90 pack	**Red sticky notes** 36 90 pack
			
Blue sticky notes 18 90 pack	**Plastic containers** 9 16 oz.	**Salt** 4 26 oz.	**String** 3 Spool
			
Beads 1 100 pack	**Paper** 1 24” x 10 yds.	**Limewater** 1 800 mL	**Conical flasks** 1 125 mL
			
Paper straws 1 100 pack	**Plastic bottles** 4 250 mL	**Balloons** 4 15–20 pack	**Dried yeast** 1 1 lb.

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FUTURE FOOD
MODULE KIT

ISBN: 978-1-64977-580-1

			
Test tubes 9 20 mL	**Test tube stoppers** 9	**Test test holders** 9	**Funnels** 9
			
Pitcher 1			

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● Reuse this item

■ Item is in the Refill Kit

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FUTURE FOOD
MODULE KIT

Lesson		1										2									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
Pondweed (voucher for 12 elodea)	■	✓		✓				✓													
Freestanding test tubes	●			✓				✓													
White sticky notes						✓										✓					
Red sticky notes						✓										✓					
Blue sticky notes						✓										✓					
Plastic containers	●	✓		✓					✓												
Salt								✓	✓												
String	●													✓							
Beads	●													✓							
Paper														✓							
Limewater	■ ⚠														✓						
Conical flasks	●														✓						
Paper straws															✓						
Plastic bottles	●														✓						
Balloons															✓						
Dried yeast															✓						
Test tubes	●														✓						
Test tube stoppers	●														✓						
Test tube holders	●														✓						
Funnels	●														✓						
Pitcher	●	✓																			

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A PLACE CALLED HOME
MODULE KIT

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ISBN: 978-1-64977-581-8

			
Pony beads (blue) 1 500 pack ☐	**Pony beads (red)** 1 50 pack ☐	**Pony beads (yellow)** 1 50 pack ☐	**Pony beads (green)** 1 100 pack ☐
			
Pony beads (orange) 1 50 pack ☐	**Pony beads (gray)** 1 200 pack ☐	**Pony beads (purple)** 1 50 pack ☐	**Pony beads (pink)** 1 200 pack ☐
			
Pony beads (white) 1 500 pack ☐	**Pony beads (black)** 1 500 pack ☐	**Measuring cylinder** 1 25 mL ☐	**Colored game chips** 1 50 pack ☐
			
Sticky labels 1 Pack ☐	**String** 6 Spool ☐	**Dice** 36 ☐	**Red plastic beads** 2 1000 pack ☐

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A PLACE CALLED HOME

MODULE KIT

		
Blue plastic beads 2 1000 pack	**Yellow plastic beads** 2 1000 pack	**Quadrat trays** 12

● Reuse this item

■ Item is in the Refill Kit

Ensure items are stored correctly. Follow any instructions on the item packaging and your school's guidelines.

Please note, this module does not have a Refill Kit.

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A PLACE CALLED HOME

MODULE KIT

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Lesson		1							2						3						
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6	7
Pony beads (blue)	●	✓																			
Pony beads (red)	●	✓																			
Pony beads (yellow)	●	✓																			
Pony beads (green)	●	✓																			
Pony beads (orange)	●	✓																			
Pony beads (gray)	●	✓																			
Pony beads (purple)	●	✓																			
Pony beads (pink)	●	✓																			
Pony beads (white)	●	✓																			
Pony beads (black)	●	✓																			
Measuring cylinder	●	✓																			
Colored game chips	●									✓											
Sticky labels		✓																			
String				✓																	
Dice	●				✓																
Red plastic beads	●				✓																
Blue plastic beads	●				✓																
Yellow plastic beads	●				✓																
Quadrat trays	●	✓																			

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THE GREEN MONSTER
MODULE KIT

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ISBN: 978-1-64977-582-5

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 ■		 ■ ⚠	 ●
Algae voucher 1 ☐	**Plastic wrap** 2 Roll ☐	**Oxygen test kits** 1 100 pack ☐	**Secchi sticks** 9 ☐
 ●	 ⚠	 ⚠	 ⚠
Pipettes 9 ☐	**Fertilizer concentrate A: Liquid Orchid Food** 1 ☐	**Fertilizer concentrate B: Liquid Plant Food** 1 ☐	**Fertilizer concentrate C: Liquid African Violet Plant Food** 1 ☐
 ⚠	 ■ ⚠		
Fertilizer concentrate D: Liquid Cactus Plant Food 1 ☐	**Distilled water** 15 500 mL ☐		

● Reuse this item

■ Item is in the Refill Kit

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***For the hands-on investigation disregard the n-p-k ratios specified on the fertilizers

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THE GREEN MONSTER
MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Algae voucher	■			✓							
Plastic wrap				✓			✓			✓	
Oxygen test kits	■ ⚠			✓			✓			✓	
Secchi sticks	●			✓			✓			✓	
Pipettes	●			✓			✓			✓	
Fertilizer concentrate A: Liquid Orchid Food	⚠			✓							
Fertilizer concentrate B: Liquid Plant Food	⚠			✓							
Fertilizer concentrate C: Liquid African Violet Plant Food	⚠			✓							
Fertilizer concentrate D: Liquid Cactus Plant Food	⚠			✓							
Distilled water	■ ⚠			✓							

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EQUIPMENT KIT—GRADE 8

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ISBN: 978-1-64977-598-6

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Clear plastic containers (plastic shoeboxes) 9 ☐	**Stopwatches** 9 ☐	**Non-latex gloves** 3 100 pack ☐	**Ping pong balls** 9 ☐
			
Tennis balls 18 ☐	**Measuring tapes** 9 10 ft. ☐	**Transparency sheets** 18 ☐	**Dry-erase felt tip pens** 2 12 pack ☐
			
Pitchers 9 ☐	**Flashlights (small)** 18 ☐	**Safety goggles** 37 ☐	

● Reuse this item

Ensure items are stored correctly. Follow any instructions on the item packaging and your school's guidelines.

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EQUIPMENT KIT—GRADE 8

Item name		Module name							
		Ocean Powered	Asteroid Alert!	Collision Course	Movie Magic	Amazon of the Oceans	Into the Abyss	Animal Tracks	The Bees' Needs
Clear plastic containers (plastic shoeboxes)	●	✓				✓			
Stopwatches	●				✓	✓	✓		
Non-latex gloves							✓		
Pitchers	●	✓					✓		
Safety goggles	●		✓		✓	✓	✓		
Ping pong balls	●								
Tennis balls	●		✓						
Measuring tapes	●			✓	✓		✓		✓
Flashlights	●		✓				✓	✓	
Transparency sheets	●							✓	
Dry erase felt-tip pens	●							✓	

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OCEAN POWERED
MODULE KIT

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ISBN: 978-1-64977-583-2

*Images © AquaPhoenix Scientific

			
Hydroelectric Power Station 1 ☐	**Corks (size 2)** 27 ☐	**Styrofoam balls** 1 432 pack ☐	**Long bolts** 27 6 in. ☐
			
Hex nuts 27 0.5 in. ☐	**Rubber washers** 27 0.5 in. ☐	**Foam boards** 54 8.5” x 11” ☐	**Duct tape** 9 ☐
			
Corks (size 1) 27 ☐	**Toothpicks** 1 800 pack ☐	**Wooden skewers** 1 100 pack ☐	**Binder clips** 18 Medium ☐
			
Foam sheets 27 9” x 12” ☐	**Funnels** 9 ☐	**Cardboard** 27 11” x 17” ☐	**Wooden dowels** 9 3/8” x 12” ☐

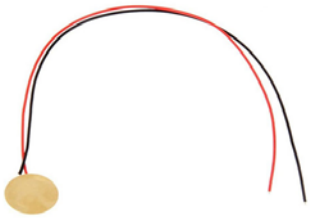
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OCEAN POWERED
MODULE KIT

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Spring force meters 9	**Washers** 18	**Paper cups** 27 4 oz.	**Alligator clips with wires** 18 12 in.
			
LEDs 6	**DC generators** 3	**Small cogs** 3	**Piezoelectric plates** 3
			
Plastic sample bottles 36 5 mL	**Magnet wire** 4	**Neodymium magnets** 27	**Rubber ducks** 27
			
Wooden beads 2 100 pack	**Sandpaper** 3 Fine	**Multimeters with cables** 9	**Pliers** 1

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MODULE KIT

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Polystyrene sheets 9	**PVC tubes** 27 1 3/4"x 3/4"	**Masking tape** 3	**Metal nails** 27 2"
			
Fishing line 9 25 yds.			

- Reuse this item
- Item is in the Refill Kit

Ensure items are stored correctly. Follow any instructions on the item packaging and your school's guidelines.

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OCEAN POWERED
MODULE KIT

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Lesson		1							2						3						
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6	7
Hydroelectric Power Station	●	✓							✓						✓						
Corks (size 2)	●	✓							✓												
Styrofoam balls																	✓	✓	✓		
Long bolts	●	✓																			
Hex nuts	●	✓																			
Rubber washers	●	✓																			
Foam boards	●	✓															✓	✓	✓		
Duct tape				✓												✓	✓	✓	✓		
Corks (size 1)	●		✓																		
Toothpicks	■		✓																		
Wooden skewers			✓	✓																	
Binder clips	●		✓																		
Foam sheets	■		✓																		
Funnels	●		✓																		
Cardboard	■			✓																	
Wooden dowels	●			✓																	
Spring force meters	●			✓																	
Washers	●			✓												✓	✓	✓	✓		
Paper cups	■			✓																	
Alligator clips with wires	●														✓	✓	✓	✓	✓		
LEDs	●														✓						
DC generators	●														✓						
Small cogs	●														✓						
Piezoelectric plates	●														✓						
Plastic sample bottles	●														✓	✓	✓	✓	✓		
Magnet wire	■														✓	✓	✓	✓	✓		
Neodymium magnets	●														✓	✓	✓	✓	✓		

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OCEAN POWERED
MODULE KIT

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
Rubber ducks	●																✓	✓	✓	✓	
Wooden beads	●																	✓	✓	✓	
Sandpaper	●																✓	✓	✓	✓	
Multimeters with cables	●															✓	✓	✓	✓	✓	
Pliers	●															✓	✓	✓	✓	✓	
Polystyrene sheets	■																✓	✓	✓	✓	
PVC tubes	■																✓	✓	✓	✓	
Masking tape																	✓	✓	✓	✓	
Metal nails	●																✓	✓	✓	✓	
Fishing line					✓												✓	✓	✓	✓	

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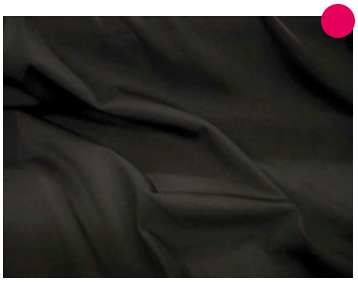
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ASTEROID ALERT!

MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-586-3

			
Plastic toy hoop 1 36”	**Spandex** 1 60” x 72”	**Fabric clips** 8	**Large marbles (glass)** 2 1”
			
Large marbles (steel) 1 1.5”	**Small marbles** 4	**String** 3	**Modeling clay** 3
			
Tacks 2 100 pack	**Cardboard sheet** 9	**Polystyrene spheres** 54 4” diameter	**Wooden skewers** 1 100 pack

*Images © AquaPhoenix Scientific

● Reuse this item

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ASTEROID ALERT!

MODULE KIT

Lesson		1						2								
SESSION NUMBER		1	2	3	4	5	6	1	2	3	4	5	6	7	8	9
Plastic toy hoop	●							✓								
Spandex	●							✓								
Fabric clips	●							✓								
Large marbles (glass)	●							✓								
Large marbles (steel)	●															
Small marbles	●							✓								
String								✓								✓
Modeling clay	●							✓								
Tacks	●							✓								✓
Cardboard sheet	●							✓								
Polystyrene spheres	●										✓	✓				
Wooden skewers	●										✓	✓				

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COLLISION COURSE
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-584-9

*Images © AquaPhoenix Scientific

			
Rubber ball 1 ☐	**Golf balls** 6 ☐	**Scales** 6 ☐	**Light-up bouncy balls** 18 ☐
			
Polystyrene heads 6 ☐	**Masking tape** 3 ☐	**Craft knife** 1 ☐	**Bubble wrapping** Roll 3 ☐
			
Paper straws 100 pack 4 ☐	**Duct tape** 6 ☐	**Craft sticks** 50 pack 4 ☐	**Polystyrene boards** 12” x 12” 18 ☐
			
Transparency sheets 8.5” x 11” 18 ☐	**Corrugated cardboard sheets** 11” x 17” 18 ☐	**Plaster tapes** 4” 18 ☐	**Chin straps** 6 ☐

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COLLISION COURSE
MODULE KIT



Plastic table covers	6

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COLLISION COURSE
MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Rubber ball	●		✓								
Golf balls	●			✓							
Scales	●							✓	✓		
Light-up bouncy balls	■	✓			✓		✓	✓	✓	✓	
Polystyrene heads	●	✓					✓	✓	✓	✓	
Masking tape		✓				✓	✓	✓	✓	✓	
Craft knife	●					✓	✓	✓	✓	✓	
Bubble wrapping	■					✓	✓	✓	✓	✓	
Paper straws						✓	✓	✓	✓	✓	
Duct tape						✓	✓	✓	✓	✓	
Craft sticks	■					✓	✓	✓	✓	✓	
Polystyrene boards	■					✓	✓	✓	✓	✓	
Transparency sheets	■					✓	✓	✓	✓	✓	
Corrugated cardboard sheets	■					✓	✓	✓	✓	✓	
Plaster tapes	■					✓	✓	✓	✓	✓	
Chin straps	●					✓	✓	✓	✓	✓	
Plastic table covers	●					✓	✓	✓	✓	✓	

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MOVIE MAGIC
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-585-6

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Ceramic ring magnets 108 ☐	**Wooden craft sticks** 5 50 pack ☐	**Masking tape** 12 ☐	**Bar magnets** 27 ☐
			
Circular magnets 9 180 mm ☐	**Heavy balls (steel)** 9 1.5” ☐	**Light balls (table tennis)** 9 ☐	**Pieces of cardboard** 54 9” x 12” ☐
			
Large paper clips 1 100 pack ☐	**Small paper clips** 1 100 pack ☐	**Copper wire** 6 Spool ☐	**Hex bolts** 1 90 pack ☐
			
Sandpaper 27 ☐	**D-cell batteries** 27 ☐	**D-cell battery holders** 27 ☐	**Alligator clips with wires** 18 2 pack ☐

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MOVIE MAGIC
MODULE KIT

twig SCIENCE

			
Pliers with wire cutter 9	**Washers** 1 100 pack	**Electrical tape** 9	**Spring force meters** 9 500 g
			
Digital scales 9	**Plastic bags with zippers** 1 100 pack	**Rubber bands** 1 1/4 lb. pack	

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MOVIE MAGIC
MODULE KIT

twig SCIENCE

Lesson		1										2					3				
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5
Ceramic ring magnets	●	✓	✓	✓	✓																
Wooden craft sticks	■	✓	✓	✓																	
Masking tape		✓	✓	✓																	
Bar magnets	●				✓															✓	
Circular magnets	●										✓										
Heavy balls (steel)	●	✓										✓					✓				
Light balls (table tennis)	●	✓										✓					✓	✓		✓	
Pieces of cardboard	■		✓																		
Large paper clips				✓	✓			✓												✓	
Small paper clips	●			✓	✓			✓			✓					✓				✓	
Copper wire	■							✓			✓										
Hex bolts	■							✓													
Sandpaper								✓			✓										
D-cell batteries	■							✓			✓										
D-cell battery holders	●							✓			✓										
Alligator clips with wires	●							✓													
Pliers with wire cutter	●							✓			✓										
Washers	●							✓													
Sewing needles																					
Electrical tape											✓										
Spring force meters	●											✓									
Digital scales	●											✓									
Plastic bags with zippers	●											✓									
Rubber bands																			✓		

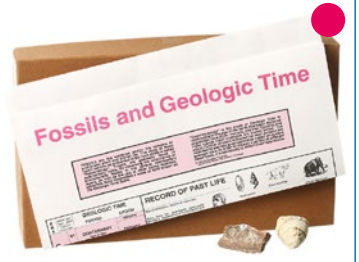
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ARE THEY AMONG US?

MODULE KIT

ISBN: 978-1-64977-587-0

			
Mesozoic fossil collection 2	**Wooden cubes** 9 0.95 cm, 100 pack	**Jars** 9 12 oz.	**Permanent markers** 9 Black

*Images © AquaPhoenix Scientific

● Reuse this item

■ Item is in the Refill Kit

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ARE THEY AMONG US?

MODULE KIT

Lesson		1						2								
SESSION NUMBER		1	2	3	4	5	6	1	2	3	4	5	6	7	8	9
Mesozoic fossil collection	●	✓														
Wooden cubes	●		✓													
Jars	●		✓													
Permanent markers	●		✓													

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SURVIVAL STORIES
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-588-7

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PTC test strips 2 100 strips	**Dice** 9	**Red counters** 1 1000 pack	**Green counters** 1 1000 pack
			
Paper baking cups 1 36 pack			

- Reuse this item
- Item is in the Refill Kit
- Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

Ensure items are stored correctly. Follow any instructions on the item packaging and your school's guidelines.

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SURVIVAL STORIES
MODULE KIT

Lesson		1					2					3					4				
SESSION NUMBER		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
PTC test strips	■ ⚠	✓																			
Dice	●		✓	✓																	
Red counters	●		✓	✓																	
Green counters	●		✓	✓																	
Paper baking cups	●						✓														

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AMAZON OF THE OCEANS

MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-589-4

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Paper umbrellas 1
144 pack



Aluminum pans 9
8" x 8"



Plastic cups 9
9 oz.



Netting 3
Spool



Soil 1
5 lb.



Green modeling clay 3



Small ring magnets 18



String 1
Spool



Steel washers 9
100 pacK



Plastic washers 1
180 pack



PVA glue 9
4 oz.



Thermochromic pigment 3
10 g



Pipe cleaners 2
100 pack



Modeling clay 2
Assorted colors

● Reuse this item

■ Item is in the Refill Kit

⚠ Check the Safety Data Sheet for this chemical. Follow the hyperlink on the kit item to review the SDS online. If there are problems accessing this information please contact: info@aquaphoenixsci.com

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AMAZON OF THE OCEANS

MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Paper umbrellas	■		✓								
Aluminum pans	●		✓								
Plastic cups	●		✓								
Netting	●		✓								
Soil	● ⚠		✓								
Green modeling clay	●		✓								
Small ring magnets	●				✓						
String	●				✓						
Steel washers	●				✓						
Plastic washers	●				✓						
PVA glue	■					✓					
Thermochromic pigment	■ ⚠					✓					
Pipe cleaners	■					✓					
Modeling clay	●						✓				

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INTO THE ABYSS
MODULE KIT

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LED color-mixing flashlights 6 3 pack	**Colored paper** 1 9” x 12”, 100 pack	**Plastic fish** 18	**Bar soap** 1
			
Beaker 1 250 mL	**Prisms** 9	**Bowls** 18 16 oz.	**Washers** 18
			
Blue filters 27 9” x 12”	**Translucent adhesive tape** 3 Roll with dispenser	**Blue marker pens** 3	**Violet marker pens** 3
			
Yellow highlighters 9	**Lapel mics** 9	**Balloons** 7 15 pack	**Mini cable ties** 1 100 pack

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INTO THE ABYSS
MODULE KIT

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Modeling clay 1	**Spring toy** 1	**Adding machine tape** 27 Roll	**Sticker dots** 1 864 pack
			
Blindfolds 12	**String** 1 Spool	**Bell** 1	**Earplugs** 2 30 pack
			
Mechanical timers 9	**Cardboard boxes** 9 12” x 7” x 4”	**Decibel reader** 1	**Cotton balls** 1 300 pack
			
Cork sheets 36 12” x 12” x 1/16”	**Aluminum foil** 9	**Cardboard** 36 9” x 12”	**Packing peanuts** 18 2 pack

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INTO THE ABYSS

MODULE KIT



Craft knife 1

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INTO THE ABYSS

MODULE KIT

twig SCIENCE

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
LED color-mixing flashlights	●		✓																		
Colored paper	●		✓																		
Plastic fish	●		✓																		
Bar soap	●		✓																		
Beaker	●		✓																		
Prisms	●			✓																	
Bowls	●			✓																	
Washers	●			✓																	
Blue filters	■					✓	✓														
Translucent adhesive tape	■					✓															
Blue marker pens	●					✓															
Violet marker pens	●					✓															
Yellow highlighters						✓															
Lapel mics	●								✓												
Balloons									✓												
Mini cable ties									✓												
Modeling clay	●								✓												
Spring toy	●									✓			✓								
Adding machine tape	■									✓											
Sticker dots										✓											
Blindfolds	●										✓						✓				
String	●										✓										
Bell	●												✓								
Earplugs																	✓				
Mechanical timers	●																	✓			

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INTO THE ABYSS

MODULE KIT

Lesson		1							2							3					
SESSION NUMBER		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6
Cardboard boxes	●																	✓			
Decibel reader	●																	✓			
Cotton balls	●																	✓			
Cork sheets	●																	✓			
Aluminum foil																		✓			
Cardboard	●																	✓			
Packing peanuts	●																	✓			
Craft knife	●																	✓			

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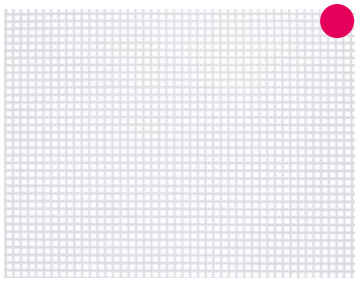
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THE BEES' NEEDS
MODULE KIT

twig SCIENCE

ISBN: 978-1-64977-592-4

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Cardboard 36 9" x 12"	**Flatpack cardboard boxes** 36 12" x 6" x 8"	**Foamcore** 36 8.5" x 11"	**Aluminum foil** 3 Roll
			
Plastic wrap 3 Roll	**Beakers** 18 500 mL	**Safety cutters** 6	**Heat pads** 90
			
Cloths 18	**Thermometers** 6	**Temperature and humidity gauges** 6	**Mesh** 18

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THE BEES' NEEDS

MODULE KIT

Lesson		1									
SESSION NUMBER		1	2	3	4	5	6	7	8	9	10
Cardboard	■				✓	✓		✓		✓	✓
Flatpack cardboard boxes	■				✓	✓		✓		✓	✓
Foamcore	■				✓	✓		✓		✓	✓
Aluminum foil					✓	✓		✓		✓	✓
Plastic wrap					✓	✓		✓		✓	✓
Beakers	●				✓	✓		✓		✓	✓
Safety cutters	●				✓	✓		✓		✓	✓
Heat pads	■				✓	✓		✓		✓	✓
Cloths	●				✓	✓		✓		✓	✓
Thermometers	●				✓	✓	✓	✓	✓	✓	✓
Temperature and humidity gauges	●				✓	✓	✓	✓	✓	✓	✓
Mesh	●				✓	✓		✓		✓	✓

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