

# Level 1 Module 1 Materials

## Survival with Spotlight Lessons on Forces and Motion

The lists below summarize the materials necessary to implement the Level 1 Module 1 curriculum. Some required items for the Survival Module are in the Spotlight Lessons on Forces and Motion kit. The lists compile items from the Materials Tables for each lesson set but separate items available for purchase in *PhD Science*® kits from those items the schools provide. The suggested quantities are for a class of 24 students and up to 6 groups of students.

Schools that purchase kits receive materials in the Kit Items list. Schools may also purchase refill kit items, identified by ☉, for subsequent years of implementation. Schools that do not purchase kits must provide those materials in addition to the materials in the School Supplied list. School supplied items are commonly available in classrooms or in stores. In addition to the listed materials, teachers may need access to such items as sunlight, electricity, uncarpeted areas, and sturdy level surfaces (tables or desks).

To learn more about the resources for this module as well as other components of *PhD Science*®, visit [greatminds.org/texas](http://greatminds.org/texas).

## Survival

Kit Items		School Supplied Items	
<input type="checkbox"/> Acorns, with caps	5 ☉	<input type="checkbox"/> Brads	6
<input type="checkbox"/> Airline tubing	8 ft	<input type="checkbox"/> Chart paper	29 sheets
<input type="checkbox"/> Air pumps	2	<input type="checkbox"/> Computers or tablets with internet access	6
<input type="checkbox"/> Antisiphon valves	2	<input type="checkbox"/> Craft sticks	24
<input type="checkbox"/> Aquarium shelters	2	<input type="checkbox"/> Crayons	24
<input type="checkbox"/> Bacteria starter	4 oz ☉	<input type="checkbox"/> Cups, plastic, 9 oz	10
<input type="checkbox"/> Boxes, cardboard, 8" × 8" × 8", unassembled	7 ☉	<input type="checkbox"/> Forks, plastic	7
<input type="checkbox"/> Bucket, plastic, 10 qt	1	<input type="checkbox"/> Gloves, protective	1 pair
<input type="checkbox"/> Carbon copy paper, 8.5" × 11"	31 sheets ☉	<input type="checkbox"/> Glue sticks	24
<input type="checkbox"/> Clay, modeling, nonhardening	1 lb ☉	<input type="checkbox"/> Index cards (optional)	5
<input type="checkbox"/> Clipboard	1	<input type="checkbox"/> Magnet (optional)	1
<input type="checkbox"/> Crayfish, small, live	2 ☉		
<input type="checkbox"/> Cups, clear plastic, 3.5 oz	18 ☉		
<input type="checkbox"/> Erasers, wedge, medium	24		
<input type="checkbox"/> Fish food tablets	1.69 oz ☉		

<input type="checkbox"/> Fish net	1	<input type="checkbox"/> Markers	
<input type="checkbox"/> Flashlights with batteries	6	<input type="checkbox"/> Assorted	24
<input type="checkbox"/> Food coloring, blue	1 oz ☉	<input type="checkbox"/> Dry erase	24
<input type="checkbox"/> Gravel	7 lb ☉	<input type="checkbox"/> Permanent	1
<input type="checkbox"/> Gravel vacuum	1	<input type="checkbox"/> Nutcracker or pliers	1
<input type="checkbox"/> Grow lamp, two headed	1	<input type="checkbox"/> Paper	
<input type="checkbox"/> Hook and loop fastener	21 cm ☉	<input type="checkbox"/> 11" × 17" or larger	6 sheets
<input type="checkbox"/> Jars with lids, clear plastic, 8 oz	4	<input type="checkbox"/> Printer, 8.5" × 11"	23 sheets
<input type="checkbox"/> Magnifiers, plastic, handheld	12	<input type="checkbox"/> Paper towels, white, absorbent	12 sheets
<input type="checkbox"/> Measuring cup, 1 L	1	<input type="checkbox"/> Pencils	
<input type="checkbox"/> Pipettes, disposable	7 ☉	<input type="checkbox"/> Sharpened	1
<input type="checkbox"/> Plastic eggs	2	<input type="checkbox"/> Unsharpened	24
<input type="checkbox"/> Radish seed packet	1 ☉	<input type="checkbox"/> Plate, disposable	1
<input type="checkbox"/> Screws	6 ☉	<input type="checkbox"/> Pocket chart	1
<input type="checkbox"/> Scrubbing pad	1	<input type="checkbox"/> Potting soil	11 cups
<input type="checkbox"/> Sentence strips	14 ☉	<input type="checkbox"/> Prickly stems	4
<input type="checkbox"/> Sequin ribbon	2 ft ☉	<input type="checkbox"/> Ruler, metric	1
<input type="checkbox"/> Sponge filters	2	<input type="checkbox"/> Scissors	1
<input type="checkbox"/> Straws, clear, 1 cm diameter	3 ☉	<input type="checkbox"/> Scissors, blunt tip	12
<input type="checkbox"/> Tanks, plastic, 3–4 gal	2	<input type="checkbox"/> Sticky notes	115
<input type="checkbox"/> Thermometers, adhesive	2	<input type="checkbox"/> Tape	6 rolls
<input type="checkbox"/> Toothpicks, pointed	124 ☉	<input type="checkbox"/> Water	Access
<input type="checkbox"/> Water conditioner	4 oz ☉	<input type="checkbox"/> Whiteboard, teacher's (optional)	1
<input type="checkbox"/> Wood pieces with bark	4		
<b>Items Required from Other Level 1 Kits</b>		<b>Possible Engineering Challenge Items</b>	
<b>Spotlight Lessons on Forces and Motion</b>		<input type="checkbox"/> Aluminum foil	
<input type="checkbox"/> Sticky note arrows	168 ☉	<input type="checkbox"/> Bags, plastic, sandwich or grocery	
<b>Safety</b>		<input type="checkbox"/> Cardboard, thin	
<input type="checkbox"/> Safety goggles	24	<input type="checkbox"/> Cellophane	
		<input type="checkbox"/> Chenille stems	
		<input type="checkbox"/> Construction paper	
		<input type="checkbox"/> Craft foam sheets	
		<input type="checkbox"/> Craft sticks	
		<input type="checkbox"/> Egg cartons, cardboard	
		<input type="checkbox"/> Folders, manila	
		<input type="checkbox"/> Paper clips	
		<input type="checkbox"/> Paper, printer, 8.5" × 11"	
		<input type="checkbox"/> Plates, paper, small	
		<input type="checkbox"/> Sequins	
		<input type="checkbox"/> Tissue paper	
		<input type="checkbox"/> Wax paper	

## Spotlight Lessons on Forces and Motion

Kit Items	School Supplied Items
<input type="checkbox"/> Bingo chips, blue 6 ♻️	<input type="checkbox"/> Bags, resealable plastic, 1 qt 6
<input type="checkbox"/> Bottle caps, steel, green 6	<input type="checkbox"/> Chart paper 2 sheets
<input type="checkbox"/> Building blocks, plastic, blue 6	<input type="checkbox"/> Computers or tablets with internet access 5
<input type="checkbox"/> Craft sticks, jumbo 6 ♻️	<input type="checkbox"/> Dime coins 6
<input type="checkbox"/> Hall's cars 6	<input type="checkbox"/> Masking tape 1 roll
<input type="checkbox"/> Jar lids, steel, white 6	<input type="checkbox"/> Paper 6 pieces
<input type="checkbox"/> Keys, aluminum 6	<input type="checkbox"/> Whiteboard, teacher's (optional) 1
<input type="checkbox"/> Magnets, bar, N/S labeled 18	
<input type="checkbox"/> Paper clips, steel, medium 6 ♻️	
<input type="checkbox"/> Teaspoons, steel 6	
<input type="checkbox"/> Washers, steel 6	
<b>Items Required from Other Level 1 Kits</b>	
<b>Survival</b>	
<input type="checkbox"/> Erasers, wedge, medium 6	
<b>Safety Kit</b>	
<input type="checkbox"/> Safety goggles 24	