

Level 2 Module 1 Materials

Matter with Spotlight Lessons on Forces and Motion

The lists below summarize the materials necessary to implement the Level 2 Module 1 curriculum. 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.

Matter

Kit Items		School Supplied Items	
<input type="checkbox"/> Angel hair vine	1 oz ☉	<input type="checkbox"/> Aluminum foil	1 roll
<input type="checkbox"/> Beeswax pellets, yellow	24 tbsps ☉	<input type="checkbox"/> Bags, resealable plastic, 1 qt	48
<input type="checkbox"/> Bins with lids, clear plastic, 6 qt	6	<input type="checkbox"/> Binder clips, medium	30
<input type="checkbox"/> Bucket, plastic, 10 qt	1	<input type="checkbox"/> Bread slices, white sandwich	16
<input type="checkbox"/> Building blocks, plastic, blue, green, red	40 each color	<input type="checkbox"/> Butter, solid	6 tbsps
<input type="checkbox"/> Cheesecloth	6 sq ft ☉	<input type="checkbox"/> Cardboard or chipboard, 3" × 3"	6
<input type="checkbox"/> Clay, modeling, nonhardening, gray	1 lb ☉	<input type="checkbox"/> Chalk, white	2 sticks
<input type="checkbox"/> Containers, clear plastic, rectangular, 6 oz	4	<input type="checkbox"/> Chart paper	16 sheets
<input type="checkbox"/> Containers, clear plastic, round, 8 oz	4	<input type="checkbox"/> Construction paper, blue, brown or purple, 9" × 12"	34 sheets
<input type="checkbox"/> Craft sticks, jumbo	75 ☉	<input type="checkbox"/> Container, plastic or glass, 24 oz or larger	1
<input type="checkbox"/> Feathers	12 ☉	<input type="checkbox"/> Container to hold 200 mL of water	1
<input type="checkbox"/> Graduated cylinder, 25 mL	1	<input type="checkbox"/> Cooler bag, insulated or freezer	1
<input type="checkbox"/> Jars with lids, clear plastic, 4 oz	24		Access

<input type="checkbox"/> Magnifiers, handheld, plastic	24	<input type="checkbox"/> Cornmeal, yellow	12 tbsp
<input type="checkbox"/> Marbles, blue or green	30	<input type="checkbox"/> Cotton balls	6
<input type="checkbox"/> Measuring cup, 1 L	1	<input type="checkbox"/> Crayons, dark colored	12
<input type="checkbox"/> Moss, Spanish	0.5 L ☉	<input type="checkbox"/> Cups, clear plastic, 4 oz	48
<input type="checkbox"/> Sand, coarse	24 fl oz ☉	<input type="checkbox"/> Dish soap, blue or green	14 fl oz
<input type="checkbox"/> Scales, plastic	1	<input type="checkbox"/> Foam blocks	80
<input type="checkbox"/> Sentence strips	15 ☉	<input type="checkbox"/> Food coloring (optional)	1 fl oz
<input type="checkbox"/> Spray bottles, 24 oz	4	<input type="checkbox"/> Forks	
<input type="checkbox"/> Thermometer, indoor-outdoor	1	○ Metal, large	1
<input type="checkbox"/> Twigs, 3"- 6"	24 ☉	○ Plastic, white	6
<input type="checkbox"/> Washers, metal	12	<input type="checkbox"/> Honey	12 fl oz
Items Required from Other Level 2 Kits		<input type="checkbox"/> Ice cubes	6
Safety		<input type="checkbox"/> Index cards, 3" × 5"	8
<input type="checkbox"/> Disposable gloves	48 pairs	<input type="checkbox"/> Knife	1
<input type="checkbox"/> Safety goggles	24	<input type="checkbox"/> Long spoon or stirring rod	1
		<input type="checkbox"/> Markers, at least 8 colors	1 set
		<input type="checkbox"/> Oranges, whole	4
		<input type="checkbox"/> Paper clips, metal	6
		<input type="checkbox"/> Paper towels	1 roll
		<input type="checkbox"/> Paper, printer, 8.5" × 11"	4 sheets
		<input type="checkbox"/> Pencils	2
		<input type="checkbox"/> Pencils, at least 8 colors	12 sets
		<input type="checkbox"/> Plastic wrap	1 roll
		<input type="checkbox"/> Pocket chart	1
		<input type="checkbox"/> Refrigerator or freezer (optional)	1
		<input type="checkbox"/> Scissors	1
		<input type="checkbox"/> Scissors, blunt tip	6
		<input type="checkbox"/> Seltzer	14 fl oz
		<input type="checkbox"/> Sticky notes	60
		<input type="checkbox"/> String	120"
		<input type="checkbox"/> Sugar, granulated, white	1½ cups
		<input type="checkbox"/> Tape	
		○ Packing, clear, 2" wide	1 roll
		○ Masking	1 piece
		<input type="checkbox"/> Teaspoons	
		○ Metal	6
		○ Plastic, clear	6
		○ Plastic, white	6
		<input type="checkbox"/> Toaster	1
		<input type="checkbox"/> Trays, plastic or metal	16-24
		<input type="checkbox"/> Water	Access
		<input type="checkbox"/> Wax paper	1 roll

	<ul style="list-style-type: none"> <input type="checkbox"/> Whiteboards (optional) <ul style="list-style-type: none"> <input type="radio"/> Personal 8 <input type="radio"/> Teacher’s 1 <p style="text-align: center;">Possible Engineering Challenge Items</p> <ul style="list-style-type: none"> <input type="checkbox"/> Blocks, foam <input type="checkbox"/> Chenille stems <input type="checkbox"/> Coffee stirrers, wooden <input type="checkbox"/> Cotton balls <input type="checkbox"/> Cotton swabs <input type="checkbox"/> Paper bags <input type="checkbox"/> Paper clips <input type="checkbox"/> Paper, printer, 8.5" × 11" <input type="checkbox"/> Paper towels <input type="checkbox"/> Straws, plastic <input type="checkbox"/> Tape, clear or masking <input type="checkbox"/> Toothpicks
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Spotlight Lessons on Forces and Motion

Kit Items	School Supplied Items
<input type="checkbox"/> Blocks, wooden, 3 cm × 5 cm × 1.5 cm 2	<input type="checkbox"/> Book 1
<input type="checkbox"/> Clipboard 2	<input type="checkbox"/> Meter sticks 5
<input type="checkbox"/> Hall's car 2	<input type="checkbox"/> Objects (e.g., books, large wooden blocks) 2
<input type="checkbox"/> Magnet, ceramic ring, coated 1	<input type="checkbox"/> Objects with magnets attached (e.g., magnetic fasteners, containers with magnetic backing, or magnetic paper clip storage container) 3-4
<input type="checkbox"/> Spinning tops 2	<input type="checkbox"/> Tape, masking 2 rolls
<input type="checkbox"/> Stopwatches 6	
Items Required from Other Level 2 Kits	
Safety	
<input type="checkbox"/> Safety goggles 24	