

Level 3 Module 3 Materials

Forces and Motion with Spotlight Lessons on the Solar System

The lists below summarize the materials necessary to implement the Level 3 Module 3 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.

Forces and Motion

Kit Items		School Supplied Items	
<input type="checkbox"/> Baking sheet, magnetic metal	1	<input type="checkbox"/> Aluminum foil, 4" × 4"	2
<input type="checkbox"/> Balls, table tennis	2	<input type="checkbox"/> Balloons	7
<input type="checkbox"/> Blocks, wooden		<input type="checkbox"/> Balls	
○ 1" × 2" × 0.5"	6	○ Bouncy	1
○ 1.5" × 1.5" × 1.5"	7	○ Soccer	6
<input type="checkbox"/> Boxes, cardboard, 8" × 5" × 3", unassembled	6 ♻️	<input type="checkbox"/> Blocks, large wooden, or books	6–10
<input type="checkbox"/> Burlap, 12" × 24"	6	<input type="checkbox"/> Books	
<input type="checkbox"/> Clipboards	2	○ Thick	1
<input type="checkbox"/> Clothespins, wooden, 3"	2	○ Thin	1
<input type="checkbox"/> Cloths, wool	6	<input type="checkbox"/> Chart paper	19 sheets
<input type="checkbox"/> Compasses, mini	4	<input type="checkbox"/> Classroom objects (e.g., book, pencil, eraser)	12
<input type="checkbox"/> Cups, plastic, 3 oz	14	<input type="checkbox"/> Cloths, cotton, 6" × 6"	2
<input type="checkbox"/> Film canisters with lids	7	<input type="checkbox"/> Cones (or other floor markers)	14

<input type="checkbox"/> Foam rubber padding, 12" × 24"	6	<input type="checkbox"/> Construction paper, 12" × 18"	2 sheets
<input type="checkbox"/> Game spinner	1	<input type="checkbox"/> Cork stoppers	2
<input type="checkbox"/> Glue gun	1	<input type="checkbox"/> Cotton balls	6
<input type="checkbox"/> Glue sticks for glue gun	10 ☺	<input type="checkbox"/> Craft sticks	12
<input type="checkbox"/> Grass, artificial, 12" × 24"	6	<input type="checkbox"/> Cups, plastic, 16 oz	3
<input type="checkbox"/> Hall's cars	6	<input type="checkbox"/> Glue sticks	24
<input type="checkbox"/> Hooks, screw in, 1"	14	<input type="checkbox"/> Highlighters, 3 colors	12 sets
<input type="checkbox"/> Magnets		<input type="checkbox"/> Hole punch, single hole	1
<input type="checkbox"/> Bar, with N/S labels	8	<input type="checkbox"/> Marker, permanent	1
<input type="checkbox"/> Ceramic disc	40 ☺	<input type="checkbox"/> Meter sticks	6
<input type="checkbox"/> Ceramic ring	24	<input type="checkbox"/> Notebooks, single-subject	2
<input type="checkbox"/> Ceramic ring, coated	2	<input type="checkbox"/> Paper clips, large metal	62
<input type="checkbox"/> Square, adhesive-backed	120 ☺	<input type="checkbox"/> Paper, printer, 8.5" × 11"	1 sheet
<input type="checkbox"/> Marbles, $\frac{5}{8}$ "	6 ☺	<input type="checkbox"/> Paper towels	1 roll
<input type="checkbox"/> Rulers, grooved	6	<input type="checkbox"/> Pencils, round	14
<input type="checkbox"/> Screws		<input type="checkbox"/> Pennies	210
<input type="checkbox"/> Brass	2	<input type="checkbox"/> Ropes	4
<input type="checkbox"/> Steel	2	<input type="checkbox"/> Rubber bands	5
<input type="checkbox"/> Spinning top	1	<input type="checkbox"/> Ruler	1
<input type="checkbox"/> Stopwatches	6	<input type="checkbox"/> Rulers, metric	7
<input type="checkbox"/> Toy tools, plastic	24	<input type="checkbox"/> Scissors	24
<input type="checkbox"/> Washers		<input type="checkbox"/> Scooter boards, plastic	12
<input type="checkbox"/> Brass	2	<input type="checkbox"/> Sink with running water (or foam cup filled with water and plastic basin)	1
<input type="checkbox"/> Steel	2	<input type="checkbox"/> Soda cans, aluminum	6
Items Required from Other Level 3 Kits		<input type="checkbox"/> Spoon, plastic	1
Module 1		<input type="checkbox"/> Sticky notes	408
<input type="checkbox"/> Safety goggles, student	24	<input type="checkbox"/> Tape, masking	2 rolls
<input type="checkbox"/> Safety goggles, teacher	1	<input type="checkbox"/> Water	12 oz
Module 2		<input type="checkbox"/> Whiteboards (optional)	
<input type="checkbox"/> Tape measure, 1.5 m	1	<input type="checkbox"/> Personal	12
<input type="checkbox"/> Timer, digital	1	<input type="checkbox"/> Teacher's	1
		Optional Balloon Rocket Extension	
		<input type="checkbox"/> Balloons	12
		<input type="checkbox"/> Straws, plastic	12
		<input type="checkbox"/> String	1 spool

Spotlight Lessons on the Solar System

Kit Items	School Supplied Items															
<input type="checkbox"/> Balls, polystyrene foam <ul style="list-style-type: none"> <input type="checkbox"/> 1" 6 ☉ <input type="checkbox"/> 4" 6 ☉ <input type="checkbox"/> Clay, modeling, nonhardening 1 $\frac{1}{2}$ lb ☉ <input type="checkbox"/> Dowels, wooden, 12" 12 ☉ <input type="checkbox"/> Stopwatches 6 <input type="checkbox"/> String 1 spool <input type="checkbox"/> Tape measure, 3 m 1	<input type="checkbox"/> Basketballs or other similarly sized spherical objects 6 <input type="checkbox"/> Cardboard, 12" circles 6 <input type="checkbox"/> Cardstock, 8.5" × 11" 8 sheets <input type="checkbox"/> Chart paper 11 sheets <input type="checkbox"/> Cups, plastic, 8 oz 6 <input type="checkbox"/> Marker or pen 1 <input type="checkbox"/> Paper, colored, 8.5" × 11" 1 sheet <input type="checkbox"/> Scissors 1 <input type="checkbox"/> Sticky notes 24 <input type="checkbox"/> Tape, masking 1 roll <input type="checkbox"/> Whiteboard, teacher's (optional) 1															
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<table border="0" style="width: 100%;"> <tr> <td colspan="2" data-bbox="190 756 808 798">Module 1 Kit</td> <td></td> </tr> <tr> <td data-bbox="190 802 808 844"><input type="checkbox"/> Safety goggles, student</td> <td data-bbox="808 802 812 844">24</td> <td></td> </tr> <tr> <td data-bbox="190 848 808 890"><input type="checkbox"/> Safety goggles, teacher</td> <td data-bbox="808 848 812 890">1</td> <td></td> </tr> <tr> <td colspan="2" data-bbox="190 894 808 936">Module 2 Kit</td> <td></td> </tr> <tr> <td data-bbox="190 940 808 999"><input type="checkbox"/> Thermometers, Celsius, plastic back</td> <td data-bbox="808 940 812 999">6</td> <td></td> </tr> </table>		Module 1 Kit			<input type="checkbox"/> Safety goggles, student	24		<input type="checkbox"/> Safety goggles, teacher	1		Module 2 Kit			<input type="checkbox"/> Thermometers, Celsius, plastic back	6	
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