

Level 4 Module 2 Materials

Traits with Spotlight Lessons on Weather and Sky

The lists below summarize the materials necessary to implement the Level 4 Module 2 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.

Traits

Kit Items		School Supplied Items	
<input type="checkbox"/> Beads, wooden, 16 mm	160	<input type="checkbox"/> Bags, paper	24
<input type="checkbox"/> Bins, clear plastic, 6 qt	2	<input type="checkbox"/> Binder clips, medium	4
<input type="checkbox"/> Clay, modeling, nonhardening	1½ lb ☺	<input type="checkbox"/> Chart paper	11 sheets
<input type="checkbox"/> Containers, clear plastic, round		<input type="checkbox"/> Classroom objects (to note similarities and differences)	10
○ 8 oz	24	<input type="checkbox"/> Computers or tablets with internet access	6
○ 16 oz	24	<input type="checkbox"/> Cones, plastic (optional)	5
<input type="checkbox"/> Fast Plant Seed Packets		<input type="checkbox"/> Construction paper, 9" × 11"	
○ Non-Purple Stem, Hairless	1 ☺	○ Black	15 sheets
○ F1 Non-Purple Stem, Yellow-Green Leaf	1 ☺	○ Blue	4 sheets
○ Yellow-Green Leaf	1 ☺	○ Green	4 sheets
<input type="checkbox"/> Food coloring, red, 30 mL	2 ☺	○ White	15 sheets
<input type="checkbox"/> Graduated cylinders, 50 mL	6		
<input type="checkbox"/> Grow light, fluorescent	1		

<input type="checkbox"/> Magnifiers, handheld, plastic	6	<input type="checkbox"/> Containers	
<input type="checkbox"/> Measuring spoons		○ For wooden beads	6
○ $\frac{1}{2}$ tsp	2	○ Opaque, for craft sticks	2
○ 1 tbsp	2	<input type="checkbox"/> Craft sticks	8
<input type="checkbox"/> Plant fertilizer pellets	1 lb ☉	<input type="checkbox"/> Cups, plastic, 9 oz	50
<input type="checkbox"/> Plant label tags	24 ☉	<input type="checkbox"/> File folders	2
<input type="checkbox"/> Rope, braided cotton	3.5 m ☉	<input type="checkbox"/> Glue sticks	12
<input type="checkbox"/> Scales, digital, ± 1 g	2	<input type="checkbox"/> Index cards, 3" \times 5"	18
<input type="checkbox"/> Shells, Peruvian scallop, in various colors and sizes	18	<input type="checkbox"/> Knife, precision	1
<input type="checkbox"/> String	76 ft	<input type="checkbox"/> Markers, permanent	7
<input type="checkbox"/> Tape measures		<input type="checkbox"/> Meter sticks (optional)	6
○ 1.5 m	6	<input type="checkbox"/> Paper, 11" \times 17" or larger	4 sheets
○ 30 m	1	<input type="checkbox"/> Paper clips	90
<input type="checkbox"/> Test tube racks	2	<input type="checkbox"/> Paper towels	1 roll
<input type="checkbox"/> Test tubes, plastic	40	<input type="checkbox"/> Pitchers for water	2
<input type="checkbox"/> Timers, digital	4	<input type="checkbox"/> Plates, paper	6
Items Required from Other Level 4 Kits		<input type="checkbox"/> Potting soil or seed starter	8 qt
Safety		<input type="checkbox"/> Rulers, metric	24
<input type="checkbox"/> Gloves, disposable	48 pairs	<input type="checkbox"/> Salt	20 g
		<input type="checkbox"/> Scissors	12
		<input type="checkbox"/> Spoons, plastic	2
		<input type="checkbox"/> Sticky notes	3 pads
		<input type="checkbox"/> Straws, plastic	4
		<input type="checkbox"/> Tape, masking	1 roll
		<input type="checkbox"/> Tomatoes with noticeable differences (e.g., small yellow cherry tomato, medium plum tomato, large beefsteak tomato)	2–5
		<input type="checkbox"/> Toothpicks	240
		<input type="checkbox"/> Water	Access
		<input type="checkbox"/> Whiteboard, teacher's (optional)	1
		<input type="checkbox"/> Yardsticks or rulers, US customary	6

Spotlight Lessons on Weather and Sky

Kit Items	School Supplied Items
<input type="checkbox"/> Blocks, wooden, 3 cm × 5 cm × 1.5 cm 6	<input type="checkbox"/> Digital camera 1
<input type="checkbox"/> Bottle, clear plastic, 2 L 1 ↻	<input type="checkbox"/> Chart paper 3 sheets
<input type="checkbox"/> Fan, table 1	<input type="checkbox"/> Marker, permanent 1
<input type="checkbox"/> Flashlights with batteries 6	<input type="checkbox"/> Paper clips 3–4
<input type="checkbox"/> Gravel 1 cup	<input type="checkbox"/> Rubber bands 2
<input type="checkbox"/> Pole, telescoping 1	<input type="checkbox"/> Scissors 1
<input type="checkbox"/> Ruler, plastic 1	<input type="checkbox"/> Water Access
<input type="checkbox"/> Thermometers, Fahrenheit 12	<input type="checkbox"/> Whiteboard, teacher's (optional) 1
<input type="checkbox"/> Windsock 1	
Items Required from Other Level 4 Kits	
Safety	
<input type="checkbox"/> Safety goggles 24	