

# Level 1 Module 3 Materials

## Sound with Spotlight Lessons on Earth Materials

The lists below summarize the materials necessary to implement the Level 1 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](http://greatminds.org/texas).

## Sound

| Kit Items   |       | School Supplied Items  |           |
|---|-------|--|-----------|
| <input type="checkbox"/> Balloon pump, handheld             | 1     | <input type="checkbox"/> Aluminum foil                             | 1 roll    |
| <input type="checkbox"/> Beads                              |       | <input type="checkbox"/> Bags, resealable plastic                  | 6         |
| ○ Plastic   | 90    | <input type="checkbox"/> Balloons                                  | 24        |
| ○ Wooden  | 90    | <input type="checkbox"/> Baskets or bins                           | 6         |
| <input type="checkbox"/> Classroom instruments              |       | <input type="checkbox"/> Beans, dried                              | 12 tbsp   |
| ○ Drum with drumsticks                                      | 1     | <input type="checkbox"/> Bottles with caps, plastic                | 8         |
| ○ Guiro with scraper  | 1     | <input type="checkbox"/> Chart paper                               | 18 sheets |
| ○ Kalimba   | 1     | <input type="checkbox"/> Clipboards with metal clip                | 12        |
| ○ Lap harp with pick  | 1     | <input type="checkbox"/> Common objects                            | 1 set     |
| ○ Triangle with wand  | 1     | (e.g., can, plastic container, sheet of paper, plastic utensil)    |           |
| ○ Ukulele   | 1     | <input type="checkbox"/> Computers or tablets with internet access | 6         |
| <input type="checkbox"/> Containers, plastic, 4" × 4" × 2"  | 6     | <input type="checkbox"/> Cotton balls                              | 30        |
| <input type="checkbox"/> Cups, insulated, disposable, 9 oz  | 27 ♻️ |  |           |
| <input type="checkbox"/> Jewelry boxes with lids, cardboard | 8     |  |           |

|  |          |   |                      |
|--|----------|---|----------------------|
| <input type="checkbox"/> Knowledge Deck™ cards                   |          | <input type="checkbox"/> Craft Sticks, jumbo        | 25                   |
| ○ Eardrum  | 24 ☉     | <input type="checkbox"/> Cups, plastic              | 18                   |
| ○ Recycled Orchestra   | 24 ☉     | <input type="checkbox"/> Felt or cloth              | 1 sheet              |
| ○ Talking Drum   | 24 ☉     | <input type="checkbox"/> Glue sticks                | 24                   |
| <input type="checkbox"/> Knowledge Deck posters                  |          | <input type="checkbox"/> Magnet (optional)          | 1                    |
| ○ Eardrum  | 1        | <input type="checkbox"/> Manila folders             | 12                   |
| ○ Recycled Orchestra   | 1        | <input type="checkbox"/> Measuring tape             | 1                    |
| ○ Talking Drum   | 1        | <input type="checkbox"/> Metal soup cans            | 8                    |
| <input type="checkbox"/> Music boxes in cardboard boxes          | 3        | <input type="checkbox"/> Paper clips, large         | 90                   |
| <input type="checkbox"/> Pie tins, aluminum                      | 16 ☉     | <input type="checkbox"/> Pencil, sharp              | 1                    |
| <input type="checkbox"/> Pom-poms                                | 64       | <input type="checkbox"/> Plastic wrap               | 1 roll               |
| <input type="checkbox"/> Ribbon, $\frac{1}{4}$ " wide            | 40"      | <input type="checkbox"/> Pocket chart               | 1                    |
| <input type="checkbox"/> Shakers, clear plastic                  | 2        | <input type="checkbox"/> Rice, uncooked             | 12 tbsp              |
| <input type="checkbox"/> Sticky note arrows                      | 228 ☉    | <input type="checkbox"/> Rubber bands               | 97                   |
| <input type="checkbox"/> String                                  | 148 ft ☉ | <input type="checkbox"/> Rulers, plastic (optional) | 25                   |
| <b>Items Required from Other Level 1 Kits</b>                    |          | <input type="checkbox"/> Scissors                   | 1                    |
| <b>Module 1</b>  |          | <input type="checkbox"/> Scissors, blunt tip        | 8                    |
| <input type="checkbox"/> Magnifiers, handheld, plastic           | 12       | <input type="checkbox"/> Sticky notes               | 105                  |
| <input type="checkbox"/> Safety goggles, student                 | 24       | <input type="checkbox"/> Straws                     | 25                   |
| <input type="checkbox"/> Safety goggles, teacher                 | 1        | <input type="checkbox"/> Table salt                 | 10 $\frac{1}{2}$ tsp |
| <input type="checkbox"/> Sentence strips                         | 7        | <input type="checkbox"/> Tape                       |                      |
| <b>Module 2</b>  |          | ○ Clear   | 1 roll               |
| <input type="checkbox"/> Acetate sheets, transparent, 8.5" × 11" | 4        | ○ Masking   | 1 roll               |
| <input type="checkbox"/> Chenille stems                          | 53       | <input type="checkbox"/> World map (optional)       | 1                    |
| <input type="checkbox"/> Craft sticks, wax                       | 8        |   |                      |

# Spotlight Lessons on Earth Materials

| Kit Items   | School Supplied Items   |
|---|---|
| <input type="checkbox"/> Clay, <ul style="list-style-type: none"> <li><input type="checkbox"/> Modeling, air-dry 2 lb</li> <li><input type="checkbox"/> Natural, powdered 7 tbsp</li> </ul> | <input type="checkbox"/> Bag, sandwich, resealable plastic 1  |
| <input type="checkbox"/> Clay pots <ul style="list-style-type: none"> <li><input type="checkbox"/> Painted 6</li> <li><input type="checkbox"/> Unpainted 6</li> </ul>                       | <input type="checkbox"/> Bowls, paper, 12 oz 22<br><input type="checkbox"/> Chart paper 10 sheets<br><input type="checkbox"/> Container, 3 qt or larger 1 |
| <input type="checkbox"/> Hematite rock 1  | <input type="checkbox"/> Cups, clear plastic, 9 oz 7<br><input type="checkbox"/> Glue stick 1   |
| <input type="checkbox"/> Jars with lids, clear plastic, 4 oz 24   | <input type="checkbox"/> Marker, permanent 1<br><input type="checkbox"/> Paper towels 12 sheets   |
| <input type="checkbox"/> Moss, long fiber 2 cups  | <input type="checkbox"/> Plates, paper, 10" 48<br><input type="checkbox"/> Rocks, small 12  |
| <input type="checkbox"/> Paintbrushes 24  | <input type="checkbox"/> Safety goggles (for teacher) 1   |
| <input type="checkbox"/> Pipettes, disposable 12  | <input type="checkbox"/> Scissors 1   |
| <input type="checkbox"/> Sand, coarse 2 cups  | <input type="checkbox"/> Spoons, plastic 7  |
| <input type="checkbox"/> Sidewalk chalk, 2 colors 6 pieces each color   | <input type="checkbox"/> Sticky note 1<br><input type="checkbox"/> Tape 1 roll  |
| <input type="checkbox"/> Sifting screens, plastic 6   | <input type="checkbox"/> Top soil 5 cups<br><input type="checkbox"/> Water Access<br><input type="checkbox"/> Whiteboard, teacher's (optional) 1          |
| Items Required from Other Level 1 Kits  |   |
| <b>Module 1</b>   |   |
| <input type="checkbox"/> Magnifiers, handheld, plastic 12   |   |
| <input type="checkbox"/> Safety goggles, student 24   |   |
| <input type="checkbox"/> Safety goggles, teacher 1  |   |