
Materials Checklist

This checklist will help you assemble and review your supplies for each session. Quantities of each item are not listed, as that will be determined by the size of your group. Additional details about the materials needed are available in the session write-ups.

Elements and You

- Plain pound cake
- Knife (for cutting pound cake)
- Napkins or paper plates (for serving pound cake)
- Gloves or wet wipes (for safe food handling)
- Example(s) of pure elements (sheet of aluminum, copper tubing, elemental density cubes, etc.)
- Large periodic table to display
- Periodic table handouts
- Large mixing bowl
- Pony beads (clear, light blue, dark blue, black, green, orange, pink, purple, red, and yellow)
- Small scoops or Dixie cups
- Universe of Beads key
- Universe of Beads worksheets
- White rice
- Brown rice
- Split peas
- Black beans
- White beans
- Pinto beans
- Red beans
- Red lentils
- Brown lentils
- 8 oz plastic bottles with lids
- Tape for sealing bottles
- Funnel
- Bottle key
- 5 colors of modelling clay (for example: red, yellow, orange, green, and blue)
- White board, easel pad, or overhead projector (optional)

Rainbow Analysis

- Paper towel tubes
- Aluminum foil

- Diffraction grating
 - Masking tape
 - Ziploc bags for spectroscope kits (optional)
 - Poster or handout about the electromagnetic spectrum
 - Example spectrum handout
 - Incandescent light bulb
 - Discharge lamps (recommended)
 - Completely blacked-out room (optional)
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Supernova Explosion

- Colored balloons (red, orange, yellow, green, blue, violet)
 - Empty soda cans
 - Hot plate (or Bunsen burner and screen/ring setup)
 - Large bowl
 - Cold water
 - Ice
 - Tongs or oven mitts
 - Hoberman sphere
 - Basketballs (or kickballs, soccer balls, etc.)
 - Tennis balls
 - Model clay ball from Elements and You session (optional)
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Black Holes in Orbit

- Tennis ball
- Set of density blocks (objects of the same size and different weights)
- Loops of heavy gauge wire, ~ 36 inches in circumference
- Loops of heavy gauge wire, ~ 60 inches in circumference
- Glow stick necklaces
- Flashlights with batteries
- Cellophane or tissue paper to cover flashlight lenses
- Tissue paper party decorations
- Completely blacked-out room (optional)
 - Tape (black or plain duct tape is best)
 - Black trash bags
 - Scissors
 - Ladder may be necessary