

Shopping List for 4th Grade: Earth Science

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How many of these items do you already have? We've tried to keep it simple for you by making the majority of the items things most people have within reach (both physically and budget-wise). NOTE: some materials (such as alligator wires, batteries and battery cases) can be used more than once if you dismantle previous experiments.

- alum
- aluminum foil (or cookie sheet)
- ammonia (with adult help)
- borax (AKA sodium tetraborate)
- charcoal briquettes (or pieces of sponge or brick or porous rock)
- disposable cups
- distilled water
- egg shells (clean)
- Epsom salts
- food coloring
- [Geology Field Trip in a Bag](#)
- glass jars, 5 (cleaned out pickle or jam jars work great!)
- guar gum (powdered)
- [laundry bluing](#)
- magnet
- magnifying glass
- measuring spoons
- microscope slide
- OPTIONAL: calcium chloride (found on the laundry aisle of some stores)
- OPTIONAL: cobalt (II) chloride
- OPTIONAL: copper (II) sulfate (common chemistry lab chemical, also used for aquaria and as an algaecide for pools)
- OPTIONAL: iron (III) chloride
- OPTIONAL: manganese (II) chloride
- OPTIONAL: sodium silicate
- paper clips
- paper plate
- pencil (or wooden skewer)
- pennies, 50
- pipe cleaners (or string or skewer)
- popsicle sticks
- [PVA \(polyvinyl alcohol\)](#)
- ruler
- salt (non-iodized)
- sauce pot
- shallow dish (like a pie plate)
- sponge (or other porous material to grow your crystals on)
- spoon (for stirring)
- steel nail
- stove (with adult help)
- string (or yarn)
- sugar (8 cups)
- tape (double sided)
- toothbrush
- unglazed porcelain tile (or the bottom of a coffee mug)
- vegetable oil
- vinegar (white distilled)
- water
- [worksheet printout](#)