

Shopping List for Unit #20: Lesson 1: Atmosphere

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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), and even have broken down the materials by experiment category so you can decide if those are ones you want to do.

- activated carbon (found in a fish store)
- alcohol burner or votive candle
- alum (found in the grocery or drug store)
- balloons (5)
- black paint or spray (flat, not glossy)
- black piece of paper
- bowl
- business card or index card
- Celsius/Fahrenheit thermometer
- cheese cloth
- chemistry stand (optional)
- clay
- cotton balls (2)
- Diaper Genie refill, or large plastic bags.
- disposable cups (4)
- disposable pie tin (2)
- drill bits and drill with adult help
- duct tape, masking tape
- electric fan
- film canister or soup can
- food dye (red and blue)
- funnel
- garbage bag (lightweight, plastic)
- glass jars (3)
- glasses (2, identical)
- gloves
- goggles
- hair dryer (hand held)
- hair, single
- highlighter (silver, or some aluminum foil)
- hole punch
- ice cubes
- ketchup packet
- lighter (with adult help)
- lime (calcium hydroxide, found in gardening store)
- marker
- measuring cups
- measuring spoons (1/4 and 1/2)
- medicine dropper or syringe dropper
- newspaper
- paintbrush
- paper
- paper clips
- pencil with eraser on top
- pepper
- ping pong ball
- pinwheel (can be purchased or made from construction paper)
- popsicle sticks (2)
- right-angle glass tube inserted into a single-hole stopper (optional)
- rubber tubing (optional)
- rubbing alcohol
- ruler
- salt
- saltwater
- sand (clean sand)
- scissors
- shoe box (small child's size)
- soda bottle (two liter)
- soda cans (3, empty)
- sodium acetate
- stopwatch
- stove or burner (with adult help)
- straws (25)
- string (about 4 feet long)
- Sun print paper or other paper sensitive to light
- tacks or pins
- tape
- test tube (or medicine dropper)
- test tube clamp
- water bottles
- wire screen

Shopping List for Unit #20: Lesson 2: Geology

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Mineral & Rock Samples

(See website for online ordering links)

- “Flowering Rock” dolomite samples
- “Geology Field Trip” rock samples
- “Know Your Minerals” (also called “Learn Your Minerals”) set by Geoscience Industries
- “Know Your Rocks” (also called “Learn Your Rocks”) set by Geoscience Industries
- “Washington Student Rock Pack” (see list below for samples that are included)

Supplies:

- acetic acid (plain distilled white vinegar)
- ammonia (adult supervision required!)
- baking soda powder
- borax (sodium tetraborate)
- calcium hydroxide (also known as “lime”)
- calculator
- copper sulfate crystals
- dirt
- disposable paper cups (6)
- eggshell halves (4), cleaned
- empty egg carton
- Epsom salts
- flour
- food coloring
- funnel
- glass (plate)
- glass jar
- goggles
- hammer
- kitchen sponge (2)
- laundry bluing
- longwave UV light
- magnet
- magnifying lens (handheld)
- measuring cup (milliliters (mL))
- measuring tape
- medicine dropper
- mixing bowl

- oil
- paper clip
- paper towels
- paperclip
- pennies (50)
- penny
- pie tins (6)
- pipe cleaners (or string or skewer)
- Plaster of Paris
- plastic spoon
- pliers (to bend paperclip)
- Polyurethane A
- Polyurethane B
- popsicle sticks
- rubber stopper
- ruler
- salt
- sand
- scale (measures in grams)
- scissors
- shell (something to make a fossil of)
- sodium silicate
- steel nail
- stove, pan, and adult help
- straw
- string
- sugar
- test tube
- toilet paper
- unglazed porcelain tile
- votive candle
- water bottles (2)
- wooden skewer