

Supplies

MACHINES I

- ✂ Heavy books
- ✂ Strong ruler or yard/meter stick
- ✂ Safety glasses
- ✂ Ball
- ✂ Paperclips of the same size/shape
- ✂ Plastic ruler
- ✂ Tape
- ✂ String
- ✂ Fine thread

ATOMIC/MOLECULAR MOTION II

- ✂ Food coloring
- ✂ 2 identical drinking glasses
- ✂ Thermometer that can be used in boiling and freezing water
- ✂ Ice
- ✂ Saucepan
- ✂ Frying pan

CELLS III

- ✂ Paper roll tube
- ✂ Chalk or colored tape (e.g., painter's tape)
- ✂ Pom-poms or other small objects in at least two colors

WATER CYCLE

- ✂ Wide-mouth jar
- ✂ Pea-sized gravel or marbles
- ✂ Cotton batting or washcloth
- ✂ Paper towels
- ✂ Plastic bag
- ✂ Well-watered plant (can be indoors or outdoors)
- ✂ Food coloring or other "pollutants" to mix in water
- ✂ Large bowl
- ✂ Smaller bowl or dish (e.g., a custard dish)
- ✂ Plastic wrap

HEAT & DENSITY

- ✂ Glass narrow-necked bottle with lid (e.g., juice bottle, soda bottle, bbq sauce bottle)
- ✂ Drill
- ✂ Balloon
- ✂ Drinking straw
- ✂ Glue
- ✂ Food coloring
- ✂ Clear-sided glass
- ✂ Fork or tongs
- ✂ Match or lighter
- ✂ Ice cube tray or freezer-safe dish

FUNGI & BACTERIA II

- ✂ Slice of bread (preferably fresh-baked)
- ✂ Plastic sandwich bag
- ✂ 1 package/2 ¼ tsp of active dry yeast
- ✂ 4 cups flour
- ✂ ¾ tsp salt
- ✂ Oil or cooking spray
- ✂ Loaf pan or cookie sheet

MACHINES II

- ✂ Toy truck (or another wheeled object that can carry load)
- ✂ Small weights (e.g., marbles, gravel)
- ✂ Board (for toy truck or wheeled object to roll on)
- ✂ Yard/meter stick or tape measure
- ✂ Kitchen scale or balance
- ✂ 2 broomsticks or thick dowels
- ✂ 15-20 ft piece of rope
- ✂ 2 pulleys
- ✂ Table clamp pulley or clamps to attach regular pulley to edge of ramp
- ✂ String or nylon cording
- ✂ 2 small containers to hold small weights while hanging from a string (e.g., cans, small buckets)
- ✂ Two syringes without needles
- ✂ Plastic tubing that fits over the end of the syringe (e.g., aquarium tubing)

Supplies

MAPPING

- ☑ Globe
- ☑ A cabbage
- ☑ Permanent marker
- ☑ Kitchen knife (to cut cabbage in half)
- ☑ Cutting surface
- ☑ Rubber bands (to go around the cabbage)
- ☑ Protractor
- ☑ Straightedge (e.g., ruler)
- ☑ Skewers

LIFE OF PLANTS II

- ☑ Actively growing plant(s) that grow with a straight, twining, or branching stem such as sunflowers, peas, beans, or tomatoes
- ☑ Fine-tipped permanent marker
- ☑ 10 identical seeds
- ☑ 10 identical small pots OR cardboard, craft knife, string, and a tray
- ☑ Dirt or potting soil
- ☑ Ruler
- ☑ Flower with clear parts (e.g., lily, iris, tulip)
- ☑ Scalpel or craft knife
- ☑ Pocket magnifier (e.g., magnifying glass)
- ☑ Compound microscope (see Microscope Buying Guide)
- ☑ Microscope slides
- ☑ Cover slips

ATOMIC/MOLECULAR MOTION III

- ☑ Bicycle or ball pump
- ☑ Inflated ball, bicycle tire, or balloon which can be deflated
- ☑ 2 identical, non-insulated bottles
- ☑ Thermometer
- ☑ Coat, blanket, or other insulating material

MICROSCOPIC ORGANISMS I

- ☑ Small jars with tight-fitting lids
- ☑ Compound microscope (see Microscope Buying Guide)
- ☑ Microscope slides
- ☑ Cover slips
- ☑ Pasteur pipettes