



ENLIGHTIUM
ACADEMY

Honors Science 6 Supply List

Note: Sometimes experiments and projects have videos showing or explaining them in the lesson already. Please make sure that your student reads the entire experiment and watches any videos before getting started. Experiments requiring a microscope can be modified and may already have a video that your student can watch to complete their work.

Experiment: Root Observation

- Four radish or corn seeds
- A metric ruler
- Two thumb tacks
- Water
- A hand lens (magnifying glass)
- One plastic bag
- Scissors
- A microscope
- A microscope slide
- One paper towel
- A stapler

Experiment: Celery (Video)

- A celery stalk with leaves
- Food coloring (red or blue)
- An eye dropper
- A microscope or handheld magnifying glass
- A microscope slide
- Water
- A tall baby food jar or glass
- Razor blades (single-edged)
- A metric ruler

Experiment: Digestion

- A tray
- A clear bowl
- Orange juice
- Water
- Two crackers

- A banana
- A sealable plastic bag
- A plastic cup
- Half a pair of sheer nylon tights to represent the small intestine
- A pair of scissors
- Tape

Experiment: Oil and Soap

- Two clear bottles that can contain at least 250 milliliters of liquid.
- Vegetable oil
- A clear jug with at least 500 milliliters of water
- Food coloring of any color, except yellow
- Dish washing liquid
- And a graduated cylinder or measuring cup.

Experiment: Pulse Rate

- Two friends

Experiment: Evaporation and Cooling

- Rubbing alcohol
- Water
- Two cotton balls
- Two baby food jars
- A watch with a second hand
- A sidewalk or asphalt

Experiment: Trial and Error

- A piece of cardstock or heavy paper (10cm x 10cm)
- Scissors

Project: Flower Structure

- Magnifying glass
- Toothpick
- Black paper or very dark material
- Fresh flower
- Plastic knife

Project: Lima Bean Embryo

- Lima beans
- A magnifying glass

Experiment: Copper Iodide

- A copper penny

- Iodine solution from your medicine cabinet
- A cotton swab
- A small pan for heating the penny
- A hot plate or Bunsen burner for heating the penny

Project: Water Molecule Model

- Two toothpicks
- Two black Styrofoam balls
- One white Styrofoam ball

Experiment: Acid or Base? (Video)

- Ammonia
- Ammonia plus vinegar

Experiment: Test Tube Tunes

- Eight test tubes or soda bottles

Project: Refracted Light

- A glass half full of water
- A coin of any type
- A pencil

Project: Create a Rainbow

- A clear drinking glass
- Water
- A white sheet of paper

Experiment: Mixing Colorants

- Red, yellow, and blue dye or food coloring
- Warm water
- Eight clear plastic cups

Experiment: The Law of Inertia

- One quart jar
- One square piece of cardboard (large enough to cover top of jar)
- One marble
- Enough sand or dirt to fill about two inches in the bottom of the jar

Experiment: Balloon Globe

- One round balloon filled with air
- A flashlight (a small penlight works best)
- A square-shaped object, about four or five inches square
- Two small circles of paper (to be used for the north and south poles)

- A small amount of glue

Experiment: Eclipses

- A large ball (A basketball or similar sized ball)
- A small ball (A tennis ball or similar sized ball)
- A strong light (about 100 watts or more)
- A method for darkening the room