



ENLIGHTIUM
ACADEMY

Honors Science 6 Supply List

Note: The * next to an experiment name indicates that there is a video within the assignment that can be used if the supplies are unavailable. If you are unable to obtain supplies for any experiments not marked with an asterisk (*), please inform your teacher; experiments requiring a microscope can be modified.

UNIT 1: PLANT SYSTEMS

Experiment: Seeds

- Four kernels of corn or beans
- Four paper towels
- Four test tubes or baby food jars
- Water

Experiment: Root Observation

- Four radish or corn seeds
- A metric ruler
- Two thumb tacks
- Water
- A hand lens
- One plastic bag
- Scissors
- A microscope
- A microscope slide
- One paper towel
- Stapler

Experiment: Celery*

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

Experiment: Growing Roots

- Water
- A stem cutting from a growing plant
- One tall baby food jar

UNIT 2: BODY SYSTEMS

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
- Scissors
- Tape

Experiment: Oil and Soap*

- Two clear bottles (250mL or larger)
- Vegetable oil
- A clear jug with 500mL or more of water
- Food coloring of any color *except yellow*
- Dish washing liquid
- A graduated cylinder or a measuring cup

Experiment: Passing Food*

- Water
- Honey
- Starch
- Masking tape
- Glucose test strips
- One drop of iodine solution
- A dialysis membrane or a semi-permeable membrane (2 squares, 5cm x 5cm)
- Two dental rubber bands/small rubber bands
- Two small baby food jars/beakers/cups
- Two small bottles or test tubes that will fit easily into baby food jars

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 small blackboard or chalkboard

UNIT 3: PLANTS AND ANIMAL BEHAVIOR

Report: The Eye

- A pencil
- Paper

Report: The Ear

- A pencil
- Paper

Experiment: Trial and Error

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

UNIT 4: MOLECULAR GENETICS

Project: Flower Structure

- A magnifying glass
- A toothpick
- Black paper or very dark material
- A fresh flower
- A plastic knife

Project: Lima Bean Embryo

- Lima beans
- A magnifying glass

Project: Traits

- 14 people, who are not related to one another, to interview

Report: Genetics Topic

- Research resources

UNIT 5: CHEMICAL STRUCTURE AND CHANGE

Experiment: Solid, Liquid, and Gas*

- A balloon
- A small block of wood (or a rock)
- A clean, square, plastic container or square baking dish
- Water
- A glass

Experiment: Copper Iodide*

- A copper penny
- Iodine solution from your medicine cabinet
- A cotton swab
- A small pan (in order to heat the penny)
- A hot plate or Bunsen burner (in order to heat the penny)

Project: Water Molecule Model

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

Project: Atomic Number

- N/A

Project: Use the Periodic Table

- A copy of the periodic table (digital or printed)

Report: Chemical Discoveries

- Research resources

Experiment: Acid or Base?

- N/A (Video of experiment within the assignment)

UNIT 6: LIGHT AND SOUND

Experiment: Test Tube Tunes

- Eight test tubes or soda bottles
- Water

Project: Refracted Light

- A glass $\frac{1}{2}$ full of water
- A coin of any type
- A pencil

Project: Create a Rainbow

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

Project: Color Wheel

- A cardboard circle (about 5 inches in diameter)
- A white paper circle (about 5 inches in diameter)
- Piece of string (about 4 feet long)
- Crayons: red, orange, yellow, green, blue, and violet
- Glue
- A ruler
- A pencil

Experiment: Mixing Colorants

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

UNIT 7: MOTION AND ITS MEASUREMENT

Report: Horsepower and Watts

- Research resources

Experiment: Your Horsepower

- A watch with a second hand, or a stopwatch
- Access to a flight of stairs

Experiment: The Law of Inertia

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

UNIT 8: SPACESHIP EARTH

Experiment: Balloon Globe

- One round balloon filled with air
- A flashlight (a penlight works best)
- A square shaped object (about 4 or 5 inches)
- Two small circles of paper
- A small amount of glue

Project: Fact or Opinion

- N/A

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

UNIT 9: ASTRONOMY AND THE STARS

Report: Great Astronomers

- Research resources

Project: Constellations

- Research resources
- Paper
- A pencil

UNIT 10: THE EARTH AND THE UNIVERSE

No experiments