



ENLIGHTIUM
ACADEMY

Physics Course Supply List

Note: Common supplies such as pens, paper, water, etc. have been omitted from this list but are given within Ignitia. If any supplies are unobtainable or unaffordable, please inform the instructor.

The following items will be needed throughout the entire course:

- Access to research materials (internet, local library, etc.)
- A metric ruler
- A stopwatch or a timer (smartphone app is OK)
- Microsoft[©] Excel[©] (or a similar program)
- Microsoft [©] Word [©] (or a similar program)
- Access to a computer with Adobe Flash

Semester 1

Experiment: Vectors (Unit 1)

- No additional supplies needed

Experiment: Collisions (Unit 2)

- Access to a computer with Adobe Flash
- Four marbles (must be same size)
- Small, paper cup
- Scissors
- Meter stick (preferably) or yard stick
- Three - four cm thick book
- Food or postage scale (optional)

Experiment: Latent Heat (Unit 3)

- Two styrofoam coffee cups (8-oz)
- Thermometer
- Small piece of cardboard (to cover top of coffee cup)
- Small piece of metal (i.e. bolt, nut, etc.)
- Access to freezer
- Measuring cup
- Food or postage scale (if available)

Experiment: Choose a Product (Waves) (Unit 4)

- Supplies depend on what product students choose to create; options will include creating a children's book, essay, experiment, video, song, etc.

Semester 2

Experiment: Pinhole Camera (Unit 1)

- Small, cardboard box (i.e. shoe box)
- Flat, black paint
- Scissors or X-acto knife
- Aluminum foil
- Wax paper
- Needle or pin
- Tape (i.e. electrical, duck, or masking)
- Lamp with removable shade
- Object to view (i.e. tree, vehicle, etc.)

Experiment: Building an Electroscope (Unit 2)

- Clear, glass jar
- Jar lid (or piece of plastic to cover jar opening)
- Electrical tape
- Ten-inch piece of copper wire (14-gauge or more)
- Straw
- Scissors
- Glue gun or liquid glue
- Aluminum foil
- Balloon
- Wool sock
- Other items that hold charge (i.e. shoes with rubber soles)

Experiment: Creating Circuits (Unit 3)

- No additional supplies needed

Experiment: Choose a Product (Magnetism) (Unit 4)

- Supplies depend on what product students choose to create; options will include creating a children's book, essay, experiment, video, song, etc.