ENLIGHTIUM ACADEMY

Modified Biology Course Supply List

Note: There are additional digital projects and written assignments that will be assigned in the course; this list focuses on supplies that will need to be gathered for hands-on experiments. 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:

- A compound microscope or a compound microscope with camera (If you are unable to purchase this item, please inform your teacher.)
- A sharp knife or a razor blade
- Access to research materials (internet, local library, etc.)
- A magnifying glass (hand lens)
- A stopwatch (smartphone app is OK) or a clock with a second hand

Experiment: Fruits

- Various types of fruits

Experiment: Static Electricity

- Two inflated balloons
- A piece of material (nylon, wool, or fur)
- Thread
- Nylon stocking
- String
- A piece of white paper

Experiment: Mitosis

- Prepared slides of onion (Allium) root and whitefish blastula stained to show chromosomes

Experiment: Tissue Structure

Prepared slides of the following:

- Muscle tissue
- Some internal organ such as the kidney, liver, or heart
- Erythrocytes, or leukocytes (from blood)
- Two, two-sided coins
- A shoebox

Experiment: Probability

- Two coins
- Cardboard shoebox or something similar

Fungus All Around (Part 1)

- A slice of hard cheese
- Three sealable plastic sandwich bags
- A slice of bread
- A microscope slide
- A flashlight or another type of light source for observations