



ENLIGHTIUM
ACADEMY

Chemistry 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 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 A

Experiment: Observations, Measurements, and Analysis (Unit 1)

- Three objects from around home

Experiment: Identifying Types of Mixtures (Unit 2)

- Three clear glasses with smooth sides
- A laser pointer or flashlight
- Red Jell-O
- Red food coloring
- Sugar (white)

Experiment: Demonstrating the Gas Laws (Unit 3)

- Stove top
- Three soda pop cans (empty)
- Tablespoon
- Tongs
- Gloves
- Bowl
- Cold water and ice

Experiment: Choose a Product (Discovery of Atoms) (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 B

Project: Modeling Chemical Bonding (Unit 1)

- Access to printer (to print downloadable document)
- Scissors
- Pushpins
- Bulletin board

***If you do not have push pins and a bulletin board, you may use something else to represent the electrons (e.g., small rocks, coins, round candy, chocolate chips, etc.).

Experiment: Measuring Chemical Reaction Rates (Unit 2)

- Baking soda
- Vinegar
- Four plastic, water bottles (must all be same size)
- Funnel
- Teaspoon
- Tablespoon
- Four balloons (same size)
- Food coloring (optional)
- Piece of string (at least 12-inches long)
- Ruler or meter stick

Experiment: Cabbage Indicator (Unit 3)

- One head of red cabbage
- Cutting board
- Knife
- Large pot
- Bowl
- Colander (recommended)
- White plate or bowl (recommended)
- Porous white paper or cardstock
- Scissors
- Dixie cups (recommended)
- Eight household substance to test pH of

Experiment: Choose a Product (Final Chem Project) (Unit 4)

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