



MIDDLE SCHOOL CHEMISTRY LAB

Tuesdays, September 1-December 8 (no class Sept 22, Nov 3, Nov 24; 12 weeks)

9:30am-11:00am

Ages 11-14

Basic chemistry principles are introduced in the fall semester labs by building models, investigating matter, interpreting the periodic table and conducting lab experiments. In the spring semester, we focus on chemical reactions and real-world chemistry. A brief review of relevant material starts each lab, followed by a lab period which includes lab preparation, experimentation and clean-up. Lab supplies are included in registration fee.

Instructor: Peyton White, MSc

Location: STEM Lab (suite 21)

Course fee: \$285 OR \$28/lab (plus \$0.99 AH fee)

10% member discount

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Science Lab Basics – Tuesday, September 1

Students review the metric system and lab safety as we practice the proper use of scientific measurement tools.

States of Matter – Tuesday, September 8

This week, students explore solids, liquids, and gases by observing how matter changes state under different conditions.

Physical and Chemical Changes – Tuesday, September 15

Students investigate physical and chemical changes as they test whether materials can be reversed or permanently altered.

Properties of Matter – Tuesday, September 29

Students compare and classify materials based on their physical and chemical properties.

Elements, Compounds and the Periodic Table – Tuesday, October 6

This week, we learn to read the periodic table, how it is arranged and characteristics of groups of elements.

Atoms and Molecules – Tuesday, October 13

Students study the atomic structure of elements, how electrons are arranged around the nucleus of atoms, and why valence electrons are important.

Mixtures and Solutions – Tuesday, October 20

Students separate mixtures and solutions to understand how substances can be physically combined and separated.

Polymer Lab – Tuesday, October 27

This week, we investigate the structure and properties of polymers to understand their use in household items.

Temperature Lab – Tuesday, November 10

Students observe temperature changes during simple reactions to identify energy changes in matter.

Density Lab – Tuesday, November 17

Students investigate how the density of different materials and liquids influences their interactions with other materials.

Properties of Water – Tuesday, December 1

We investigate the properties of water and how its molecular composition creates unusual behaviors.

Escape the Lab Challenge – Tuesday, December 8

Students apply their knowledge of chemistry and lab skills to solve puzzles, uncover clues and unlock the final mystery.

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