



Class Title: Orange MS Intro to Chemistry Lab

Teacher Name: Rebecca Healy

Class Day: Friday

Class Size: 10

Class Cost: \$50

Class Fee: \$96

Ages or color group served: Orange

What level is this class: Level 3

Prerequisites: Orange level requirements.

Graduation Requirements: NA

Homework Requirements: Homework will be assigned according to each module.

Class Description:

Studying chemistry is exciting and interesting from the tiniest particles to chemical reactions that happen right before your eyes!

Explore the amazing world of chemistry with your peers in a setting that will help you connect the pieces. This class will take you on a journey through chemistry – the study of matter – where you'll learn about acids and bases, physical reactions, polymerization, and more! You'll be able to learn important chemistry topics through hands-on experiments, making concepts exciting and memorable.

The primary topics covered will include:

- States of Matter
- Solubility
- Acids and Bases
- Polymers
- Chemical Reactions

Your student will experience chemistry topics including:

- How to make a polymer bouncy ball
- Determining the density of different substances
- Electroplating a metal object

As your student(s) move through this class, each student will have opportunities to develop each of the following science skills:

- Develop testable questions about nature

- Create, evaluate, and use models
- Design and conduct investigations
 - Organize and reflect on data
- Use computational thinking to show patterns and relationships
 - Use evidence to explain and argue
- Synthesize ideas and communicate to others

****Please be advised, this is middle school level only, no high school credit will be awarded. We encourage high schoolers to participate in this class as an entry-level chemistry to prepare them for high school level.****

Week 1:

Introductions / Expectations
Safety rules and explanations
Wearing safety equipment
Review of atoms and molecules

Week 2:

Topic: States of Matter

Week 3:

Topic: Solubility and Solvents

Week 4:

Topic: Physical Properties

Week 5:

Topic: Acids and Bases

Week 6:

Topic: Acids and Bases pt2

Week 7:

Topic: Polymerization

Week 8:

Topic: Precipitation

Week 9:

Topic: Physical Changes

Week 10:

Topic: Physical Changes pt 2

Week 11:

Topic: Chemical reactions

Week 12:

Class review with games

End of semester party

