

CHEMISTRY

Tuesdays, August 24-December 14 (no class Oct 12, Nov 23)

11:00am-12:00pm

Ages 11+

We cover basic chemistry principles through model building, using the periodic table of elements, and conducting lab experiments. We look at properties of liquids and solids, investigate acid-base reactions, experiment with polymers, and more. This is the first semester of a year-long chemistry course for those needing a year of chemistry for graduation requirements. Lab supplies are included in registration.

Tentative Syllabus

(Exact timing of topics will be determined by student progress.)

Week 1 – The Metric System

Week 2 – Molecular Arrangements

Week 3 – Density

Week 4 – Atomic Structure

Week 5 – The Periodic Table

Week 6 – Ionic and Covalent Bonds

Week 7 – Oxidation Numbers

Week 8 – Electron Dot Models

Week 9 – Chemical Nomenclature

Week 10 – Properties of Water

Week 11 – Chemical Reactions

Week 12 – Reaction Rates

Week 13 – The Mole

Week 14 – Crystallization Lab

Week 15 - Review