

Chemistry

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Prerequisites

Algebra I (or currently enrolled)

Grades 10-12 (preferably)

Tuition

\$50 per month

\$50 per semester laboratory fee

Course Description

Chemistry is the study of the structure, composition, and properties of matter. Experiments will allow the student to visualize and understand how and why reactions occur between substances.

Students will learn the fundamentals of chemistry, including classification, properties, and changes in matter. Students will become familiar with the metric system, units of measurement, scientific notation, and significant figures. Students will learn stoichiometry and be able to do chemical conversions. Students will use the periodic table to understand the components of elements, atomic mass, and the mole concept. Finally, students will be able to identify, balance, and predict different types of chemical reactions, including formation/decomposition, complete/incomplete combustion, single/double displacement, acid/base, reduction/oxidation, exothermic/endothermic, and equilibrium reactions.

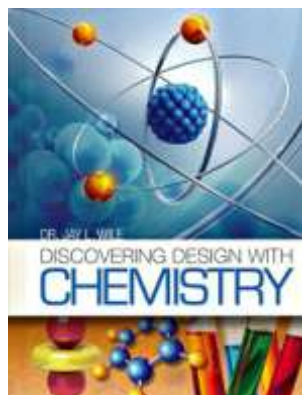
Classwork will include lectures, note-taking, discussion, and laboratory work. Laboratory reports and homework will be completed at home. Tests will be given both in class and at home.

The class fulfills high school requirements for Chemistry with a lab.

Homework

Homework/time commitment: approximately 3-5 hours per week on reading, homework, and laboratory reports.

Required Book & Materials



- Discovering Design with Chemistry
Dr. Jay Wile
ISBN: 978-0-9962784-6-1
- Calculator (not a phone)
- 2-inch binder
- Loose-leaf notebook paper
- Pen/pencil
- Access to internet and printer