

Chemistry

2011-2012 School Year, Webworks

Full Year Course

10th – 12th grade

One High School Science Credit

Course Tutor:

Emily Smith

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Course Description:

Everything around us is a chemical reaction or the product of a chemical reaction, and that is God's specific design. Please join us to explore the Lord's marvelous creation through chemistry.

Chemistry class is a 1.5 hour class lasting a full year. This course examines the composition of various substances and the changes they go through. The class will consist of both lecture and laboratory experience. During the lab time the students will perform many types of experiments using standard laboratory equipment and basic chemicals. The students will learn the classification of matter, atomic structure, and the use of the periodic table, chemical bonding and composition, structure of gases, liquids and solids, reaction of acids, bases and salts, and thermodynamics. The students will also learn to write a proper laboratory report. The students will be expected to do ¾ to 1.5 hours of homework a day.

Course Notes:

Due to the added expense, I do not require the purchase of the chemistry glassware set, but it is extremely helpful. All experiments can be performed using things around the kitchen.

Course Prerequisites:

Algebra I

Course Fees:

None

Required Texts:

Exploring Creation with Chemistry 2nd Edition, Dr. Jay L. Wile, ISBN # 978-1-932012-26-2 AND

Exploring Creation with Chemistry 2nd Edition Solutions and Test Book, Dr. Jay L. Wile, ISBN # 978-1-932012-27-9

OR buy the set:

Exploring Creation with Chemistry 2nd Edition (2 Book Set), Dr. Jay L. Wile, ISBN # 978-1-932012-29-3

Required Supplies:

Scientific Calculator

2" 3-ring binder

Set of 8-tab dividers

Lined paper

A thermometer that reads in Celsius

Mass Scale (can be found in the kitchen section of stores like Walmart, K-Mart, Target, etc. or in the laboratory set)

Tutor Bio:

I was born and raised in Flint, MI and went on to Michigan Technological University where I earned a BS Chemistry degree. I spent a year at Wayne State University studying Organic Chemistry. I worked as a

chemist for 3 years in the Detroit area, but left the job to follow my husband Eric to the Lansing area. At the age of 25, Christ opened my eyes to his love and forgiveness and I have been a Christian since then. I am a stay-home mother of 2 and I have been blessed with the opportunity to share my love of science by teaching homeschoolers for the past 5 years. This will be my fourth year with the Webworks program.