

HIGH SCHOOL CHEMISTRY

2022-2023

Richard Mayer

10th-12th Grades

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Class Description:

This is a one year science course primarily for 10-12th grades. I hope to cover a module over 2-3 weeks. Some topics include: Measurement and Units, Atoms and Molecules, Classifying Matter, Chemical Equations, Stoichiometry, Atomic Structure, Molecular Structure, Acid/Base Chemistry, Gases, and Thermodynamics.

Students should plan to devote around 60 minutes of study each school day for this class. Homework is assigned each week. Laboratory is an integral part of this class. Most experiments will be conducted in class and some assigned for home. Students take their tests at home and bring them to the next class session for my grading. Semester and final grades are determined mostly from tests, quizzes, and lab work. Emails are sent to parents each week to communicate homework and any additional items of importance. Please be sure your student is ready before registering for chemistry. Students should be mature enough to complete weekly homework. Algebra 1 is a prerequisite (Physical Science is also helpful).

Materials:

The text is **Exploring Creation with Chemistry: 2nd Edition** (Published by Apologia Educational Ministries) by Dr. Jay Wile. **The Solutions and Tests For Exploring Creation with Chemistry: 2nd Edition** is the accompanying manual with the text. Since this is an older edition, you might want to purchase your books from one of my previous chemistry students or check online. The text is designed for the home-schooled student and is written from a Christian perspective. Most experiments are done in class and the few conducted at home use common household items. I will supply any experiment supplies and copy materials used in class. A 3-ringed binder is needed for class notes, a spiral notebook for homework, and a spiral notebook is needed for lab work. A calculator is required for many of the problems.

Parent Role:

Parents and tutor work together to make this home school class effective. I work with your son or daughter in class, but you have them most of the week. Your role is critical. Your son or daughter and I depend on you to:

- 1) **Monitor them when they take tests and make sure tests are secure and reach me on time.**
- 2) **Keep the solution/test manual in your possession and always monitor student use.**
- 3) **Check to make sure homework is completed each week.**
- 4) **Read my weekly emails.**

Parents who cannot do this should not enroll their son/daughter in this class

Tuition:

\$380 for the year. Payments of \$190 are made on the first day of each semester. Included in these costs are note packets for each student, handouts provided throughout the year, rent for the classroom, and all classroom laboratory supplies. Tentatively there is no class March 6.

Drop Policy:

A student dropping within the first two weeks receives the full refund minus \$50. After two weeks, the refund is 50% of the remaining classes.

Tutor:

I am a Christian and the most important relationship in my life is with Jesus Christ the Son of God. I am blessed to be married to my wife, Deb, and have four children. We have home schooled three of our four children. We attend Agape Christian Church. I also attend and serve at Bible Study Fellowship. I have experience teaching in grades K-12, most of it being at the high school level (I retired from Portage Northern High School after 32 years of teaching in the public schools), and at KAT since 2010. I received my Bachelor of Science and Masters in Teaching of Science from WMU. My major is Earth Science and minors are Math, Biology, Chemistry, and Elementary Education.