**Chemistry (Honors)**

11th Grade

**This is the course that has been taught and referred to as “Chemistry” for the past 10 years**

This is a first year college preparatory chemistry course. Students will become familiar with the concepts and math necessary to do well in university chemistry. **This is an honors level course.** Modules cover atoms and molecules, chemical equations, atomic and molecular structure, acids and base, thermodynamics, oxidation-reduction reactions and more. Students will be expected to read **and take notes of the book and class**, do problems, quizzes and in-class and take home exams, perform experiments, and write informal and formal labs **as well as do one research paper and one project. This is a two day per week course.**

**Prerequisite**: Algebra 1 (and preferably Algebra 2) Understanding algebraic concepts is mandatory. **Instructor requires all students to take pre-test.**

**Instructor**: Sue Shields

**Contact** info: 804-932-8913 (H) or 804-307-8913 (c)

rainbowryder1@verizon.net or rainbowryder1204@yahoo.com

**Class fee**: $55/month

**Textbook:** Exploring Creation with Chemistry, 2nd edition, by Jay P. Wile, Ph.D, from Amazon or other book companies (Used only, 2nd edition which is out of print) with solution manual.

Required Calculator: TI - 30 equivalent or above

**Supply fee**: $30

(Extra tutoring available. First session free, additional sessions for a fee.) Additional resources will be sent to parents/students by email in August. Special free, optional, but highly encouraged tutoring session in August to prepare for this class, Location and exact date TBD.

*Sue has been a homeschooling parent / teacher for many years. She holds a bachelors degree in Chemical Engineering from the University of Dayton with additional course work in biology, chemistry and materials. She has industrial experience in chemical formulations, sales and air pollution control.

I have taught chemistry, physical science, physics, biology, geometry, algebra I and II, and pre-calculus  for* ***eighteen*** *years in a number of home school co-op settings and privately.  I feel God has called me to offer these classes through Areté to fill a need for homeschoolers who wish to homeschool through the high school years but feel they could use some technical help to accomplish this task.*