



**Solid Foundations**  
In Math and Science Education

## 2017-18 Course Offering: General Chemistry

Course content includes: foundations of matter and modern atomic theory, nomenclature, chemical composition, stoichiometry, chemical reactions, bonding, properties of gases, liquids, and solids, solutions, acids and bases, kinetics, thermochemistry, equilibrium, oxidation-reduction and electrochemistry, and a survey of nuclear chemistry. A strong laboratory component reinforces content and develops skills in experimental design, estimation, careful observation, analysis, and succinct communication. The formal lab report is introduced, and throughout, study skills are emphasized.

Prerequisite: Successful completion of Algebra I (Grade of B or above)

Text: McDougal Littell *World of Chemistry* by Zumdahl, Zumdahl, and DeCoste

Instructor: Dr. Kristin Brodowski

**Kristin A. H. Brodowski, Ph. D.** received master's and doctoral degrees from Stanford University in engineering and is a former NASA scientist and executive. She is now enjoying a second career as the home educator of two students, now graduated and in college, and a community science teacher of high school biology, chemistry, and physics classes. Dr. Brodowski also collaborated with The Johns Hopkins University as a co-author of a middle school, science history curriculum to support Joy Hakim's *The Story of Science: Newton at the Center* (Smithsonian Books).

Class Meeting: Wednesday mornings (9 AM-12 PM), 30-32 weeks at the home of Kirsten Voell, Woodburn Road, Leesburg, VA. 10-12 students.

Class Fee: \$650 -- includes instruction, notebook, and all laboratory materials (\$325 deposit due on enrollment; the balance due by 1 June)

References available on request. Contact [kabrodowski@gmail.com](mailto:kabrodowski@gmail.com)

## 2017/2018 General Chemistry

### Class Commitment Form

Student's Name: \_\_\_\_\_ Age: \_\_\_\_\_ Grade: \_\_\_\_\_

Student's Name: \_\_\_\_\_ Age: \_\_\_\_\_ Grade: \_\_\_\_\_

Parents' Names:

\_\_\_\_\_

Mailing Address:

\_\_\_\_\_

Home Phone: \_\_\_\_\_ Parent Cell Phone: \_\_\_\_\_

**(Please mark (\*) which phone number is preferred)**

Parent Email Address (for communication with teacher): \_\_\_\_\_

Student Email Address (for teacher/student communication): \_\_\_\_\_

Student Email Address (for teacher/student communication): \_\_\_\_\_

By signing this form, I am making a commitment for my student(s) to participate in the General Chemistry class on Wednesday mornings during the 2017/2018 academic year at the home of Kirsten Voell and taught by Kristin Brodowski. I enclose a nonrefundable\* \$325 deposit per student to secure a place(s) in this class. The balance of tuition (\$325) will be due on June 1, 2017 unless I make other arrangements with the instructor.

\* Nonrefundable if the seat(s) vacated cannot be filled by another student(s).

Parent Signature: \_\_\_\_\_ Date \_\_\_\_\_

Mail this form and your deposit to:

Kristin Brodowski

124 Positano Ct.

Purcellville, VA 20132

Questions? [kabrodowski@gmail.com](mailto:kabrodowski@gmail.com)