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Chemistry

Grade 10

Honors

This lab-based course is designed so that students will conduct a more in depth exploration of the fundamental principles of chemistry. Topics include: atomic structure, bonding, stoichiometry, thermodynamics, acid-base theories, states of matter, gas laws, solutions, inorganic, organic, and nuclear chemistry. Students will practice making quantitative and qualitative observations and measurements. Students will develop particular skills in problem solving, interpreting data, graphing, lab work, research, and public speaking. Finally, upon completion of this course, students will demonstrate chemical concepts and skills through laboratory experimentation and formal written assessments.

College Prep

This lab-based course is designed so that students will conduct an exploration of the fundamental principles of chemistry. Topics include: atomic structure, bonding, stoichiometry, acid-base theories, states of matter, gas laws, solutions, inorganic, organic chemistry. Students will practice making quantitative and qualitative observations and measurements. Students will develop particular skills in problem solving, interpreting data, graphing, lab work, research, and public speaking. Finally, upon completion of this course, students will demonstrate chemical concepts and skills through laboratory experimentation and formal written assessments.