

# Honors Chemistry I

This inquiry-based laboratory course is for students who want to learn Chemistry at an accelerated pace, leaving time to conduct more laboratory investigations and research-based projects. It is designed to prepare students for AP Chemistry or a first-year college course in Chemistry. Mathematics is emphasized in this course and through the manipulation of chemical quantities and formulas, students learn about laboratory safety and equipment, atoms, bonding, chemical reactions, moles, and gases. Students use technology, including graphing calculators, computer simulations and probe ware, to explore these concepts. This curriculum aligns with the Virginia Chemistry Standards of Learning with a focus on observing, experimenting and modeling. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics. Students are required to develop research projects using Intel ISEF guidelines for entry into the city science fair competition.

**High School Credits:** 1

**School Level:** High School

**Grade:** 10, 11, 12

**Co-Requisites:**

Algebra II

**Program:** Science Core Courses