



SCIENCE SEQUENCES

Grades 6-8

Grade 6 Content

- **Scientific Method**
 - Measurement
 - Graphing
- **Motion and Forces**
- **Energy**
 - Potential, kinetic and conversions
- **Electricity & Magnetism**
 - Parallel and series circuits
 - Conductors and insulators
 - Electromagnetism
- **Human Body Systems**
- **Simple Machines**

Grade 7 Content

- **Scientific Method**
 - **Experimental design**
 - **Density**
- **Cells and Microscopes**
 - **Cell division**
 - **Microscopic measurement**
- **Genetics and Heredity**
- **Ecology**
 - **Classification**
 - **Food chains/webs and trophic levels**
- **Evolution**
- **Introductory Chemistry**

Grade 8 Content

- **Mapping and Measurement**
- **Astronomy**
- **Meteorology**
- **Geology**
- **Review of Physical Science**
 - **Energy**
 - **Forces & motion**
 - **Electricity & magnetism**
- **Review of Chemistry**
- **Review of Life Science**
 - **Genetics**
 - **Ecology**
 - **Human body systems**



HIGH SCHOOL SCIENCE

2018-2019

SCIENCE OVERVIEW — GRADES 8-10

Science 8
(grade 8)

Regents Earth
Science
(grade 8)

Living Environment
(grade 9 for all)

Regents Earth
Science
(grade 10)

Regents
Chemistry
(grade 10)

SCIENCE OVERVIEW — GRADES 11 & 12

- **Chemistry (Chemistry in the Community, Regents and Honors)**
- **Physics (Action Physics, Regents and Honors)**
- **Dual-Enrollment and AP Courses**
 - **Biology**
 - **Chemistry**
 - **Environmental Science**
 - **Physics C (Calculus-based)**
 - **Anatomy & Physiology**
- **Electives (without lab period)**
 - **Marine Science**
 - **Human Origins and Evolution**
 - **Introduction to Horticulture**
 - **The Geology of Our National Parks**
 - **Dual-Language Medical Terminology**

Science Research in the High School (from UHS Albany)

- **3-year sequence**
 - **10th grade – i.d. topic, find mentor**
 - **11th grade – design experiment, collect data**
 - **12th grade – analyze data, present findings**
- **Starts in 10th grade (only)**
- **Open to all students**
- **For independent learners**
- **Can earn up to 12 credits from SUNY Albany**



TECHNOLOGY SEQUENCES

OVERVIEW – HS ENGINEERING

