



Science, Technology & Engineering Department

Science Curricula Grades 9-12



The Science, Technology and Engineering Department offers a variety of courses in the biological and physical sciences based on the 2016 Science and Engineering Frameworks. All courses are activity and laboratory oriented with the intent that each student becomes the center of the learning process. The underlying objective of all courses is to give students the opportunity to gain a better understanding of self and environment and to recognize the role of science in the development of society.

The **Science Department** at Norwell High School believes that all science students should be proficient in these skills.

- Asking questions (for science) and defining problems (for engineering).
- Developing and using models.
- Planning and carrying out investigations.
- Analyzing and interpreting data.
- Using mathematics, information and computer technology, and computational thinking.
- Constructing explanations (for science) and designing solutions (for engineering).
- Engaging in argument from evidence.
- Obtaining, evaluating, and communicating information.

Grade 9

Honors Biology
College Prep Biology

Grade 10

Honors Chemistry
College Prep
Chemistry
AP Biology

Grade 11

Honors Physics
College Prep Physics
AP Chemistry

Grade 12

AP physics
AP Environmental Science
Humans in the Biosphere
Medicinal Chemistry
Energy and the Environment
Biotechnology and Forensic
Science
Marine Biology
Astronomy
Anatomy and Physiology
Earth Science

The Norwell High School Program of Studies provides more detailed information about courses, expectations and opportunities.