



The Pennsylvania Department of Education requires one standardized assessment related to the high school department.

At the end of biology, students take the Keystone biology exam.

Curriculum is aligned to eligible content for these exams and to the Pennsylvania Common Core State Standards and Keystone eligible content.

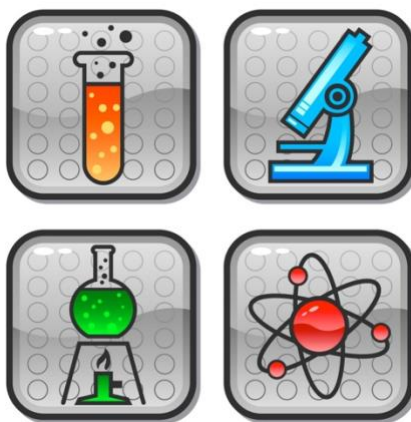
Students who do not score proficient or advanced on the first administration will re-take the assessment near the end of their Algebra II course.

Demonstrating proficiency is a graduation requirement. More information is available here: <https://www.education.pa.gov/K-12/Assessment%20and%20Accountability/GraduationRequirements/Pages/default.aspx>.



“What we know is a drop,  
what we don’t know is an  
ocean.”

Isaac Newton



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# Hempfield Secondary Science Department

**Come explore with us!**



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## Science Electives

After students have fulfilled the three required science credits, they may elect any of the following courses to broaden their science background provided course pre-requisites are met.

- Physics (Principles, CP, Honors)
- Anatomy & Physiology
- Chemistry AP
- Biology AP
- Physics AP
- Biology II Honors
- Chemistry II Honors

## AP Courses

AP courses are aligned to the College Board course requirements and provide students with the opportunity to take the Advanced Placement test at the end of the course to earn college credits through many universities. For more information go to <http://apstudents.collegeboard.org>

## Science Department Requirements

To fulfill graduation requirements, students must complete three core science credits from the courses listed below. Students considering attending a 4-year college should consult with institutions which they are interested in attending regarding science requirements for admission.

Common course sequences are below. With teacher recommendation, students may change levels to find the appropriate level of challenge.

Course Weight	Value I	Value II	Value III	Value IV
<b>Course 1 (grade 9/10)</b>	General Science Foundations	General Science CP	Honors Biology	
<b>Course 2 (grade 9/10)</b>	Foundations of Biology	Biology CP	Honors Chemistry	
<b>Course 3 (grades 10-12)</b> Choose at least one course from these selections.  See course descriptions for pre-requisites.	Current Topics in Science	Chemistry CP	Chem II Honors	Chem I AP Chem II AP
	Chemistry (value IA)	Intro to Human Biology and the Allied Health Sciences CP	Anatomy and Physiology	Environmental Science AP
	Principles of Science and Technology (value IA)	Physics CP	Physics Honors	Mechanics AP Electricity and Magnetism AP
			Biology II Honors	Biology I AP Biology II AP