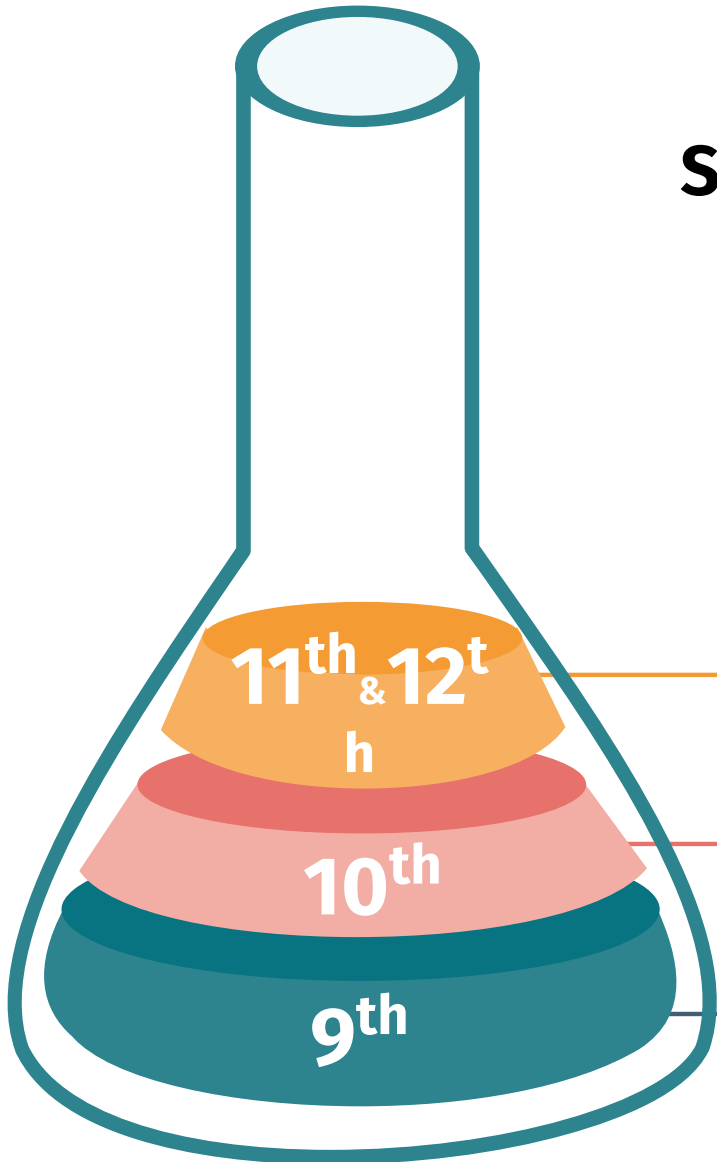


Cannon School Science Pathways

Class of 2029 and beyond...

Cannon School Science Graduation Requirements



Additional Science Course

Science Pathway Options

Principles of the Living Environment

Honors or Accelerated

Principles of Chemistry & Physics

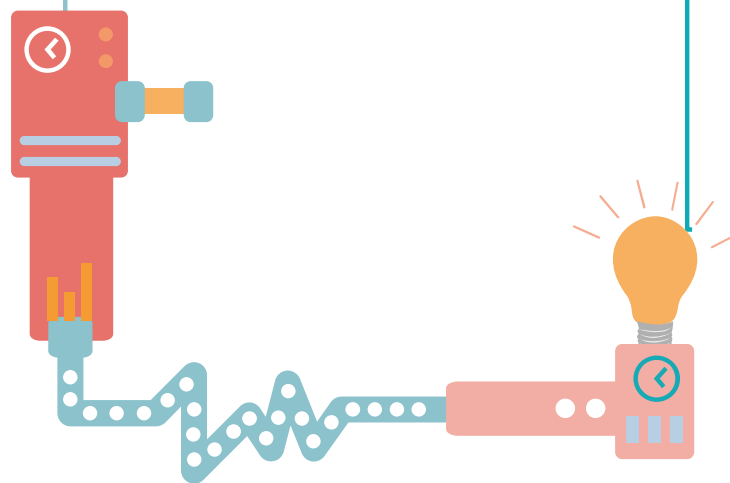
Honors or Accelerated

Principles of Chemistry and Physics

9th Grade Experience

Honors PCP

Hands-on, inquiry-based course that introduces key concepts in physical science through observation, experimentation, and collaborative projects. Students will explore topics like **matter**, **energy**, **motion**, and **waves** while developing critical thinking and problem-solving skills to prepare for advanced science courses.



Accelerated PCP

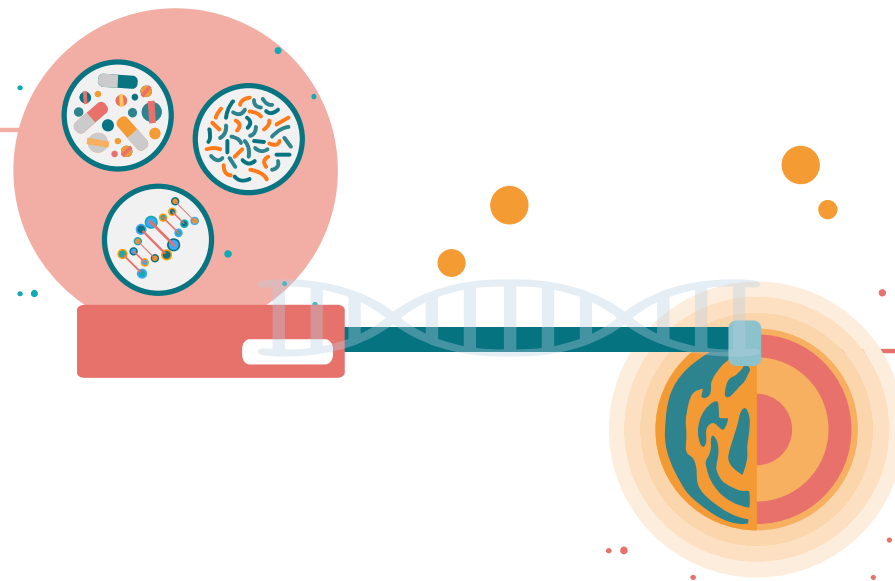
Fast-paced, hands-on course for **motivated ninth graders**, offering an **in-depth exploration of chemistry** and **physics concepts**. With a focus on independent work, critical thinking, and advanced problem-solving, students investigate topics like matter, energy, and forces to prepare for advanced science courses.

Principles of the Living Environment

10th Grade Experience

Honors PLE

Honors Biology uses group work, project-based learning, scientific inquiry, and problem solving to explore the major principles of biology—including **cell structures and functions, cellular energetics, genetics, evolution, and human anatomy and physiology.**



Accelerated PLE

Students will use **strong cognitive** and advanced analytical skills to engage with the major principles of biology at a **deeper level and a faster pace.** Additional laboratory experiences, advanced analysis and synthesis, and lab report writing will guide our deeper learning.

SciREx
End of Course Pathway Proposal

Science Concentrations

11th and 12th Grade Experience



Scientific Citizen

For students who desire a general exposure to physical and life science in order to be well-informed, critically thinking scientific citizens.

Health Science Pathway

For students who hope to pursue careers in medicine and healthcare. Emphasis on chemical and biological health and medicine sciences.

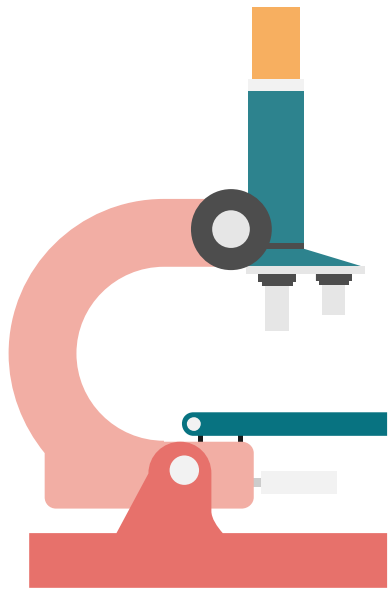
Environmental Pathway

For students who desire to analyze, advocate, and prepare for a changing planet. Emphasis on earth's physical, chemical, and living systems

Engineering Pathway

For students who enjoy problem-solving, innovation, and application to develop solutions that improve everyday life. Emphasis on physics, chemistry, and engineering.

Scientific Citizen Concentration



Honors PCP

9th

Accelerated PCP

Honors PLE

10th

Accelerated PLE

11th or 12th

Choose **TWO** semester courses or **ONE** year long course*:

Chemistry II*

Physics II*

Engineering I*

Astronomy*

Anatomy &
Physiology I/II*

Marine
Science I/II*

AP Biology

AT Environmental Science

AT Engineering*

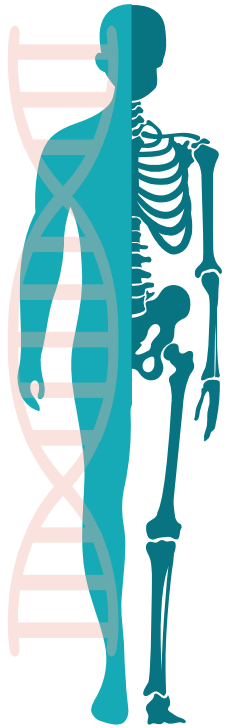
AP Computer Science

AP Research^{#+}

AP Physics 1 or C

AP Chemistry

Health Science Concentration



Honors PCP

9th

Accelerated PCP

Honors PLE

10th

Accelerated PLE

11th and 12th

AP Biology

and

AP Physics 1 or C

and/or

AP Chemistry

And an additional full year of science (* indicates semester course)

Anatomy & Physiology I*

and/or II*

Chemistry II*

Physics II*

AP Anatomy⁺

AP Research^{#+}

Environmental Science Concentration

Honors PCP

9th

Accelerated PCP

Honors PLE

10th

Accelerated PLE

AT Environmental
Science

11th and 12th

and

AP Biology

AP Research^{#+}



Engineering Concentration

Honors PCP

9th

Accelerated PCP

Honors PLE

10th

Accelerated PLE

11th and 12th

AP Physics 1 or C

and

AT Engineering^{#+}

And an additional full year of science (* indicates semester course)

Chemistry II⁺

AP Computer Science

AP Research^{#+}

AP Chemistry

Honors Engineering^{*}

AP Biology

Anatomy & Physiology I^{*} and/or II^{*}

Physics II⁺

AP Anatomy

