



Science Department

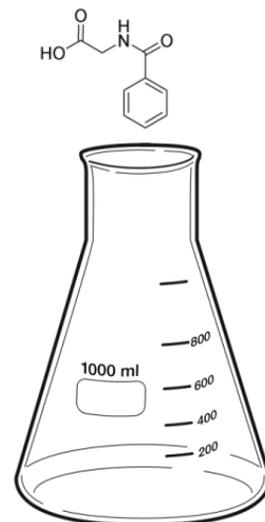


Our Mission:

Solorio's Science Department prepares students for success in science after high school through increasing scientific literacy, fostering an understanding of the natural world, and inspiring curiosity.

Our Vision:

All Solorio graduates will be driven individuals who are curious about the universe and who use their problem solving skills to positively impact their communities.



Extracurricular Activities:

STEAM Fair- Integrating science, technology, engineering, art, and math into a science fair project

Science Olympiad- students compete against other schools in events including forensics, gliders, and disease detectives.

Courses Offered:

Physics
Chemistry
Biology
AP Biology
AP Physics C
Forensics
Biotech

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Course Sequences:

9 – Physics: Physics is the study of the universe; in it we study waves, sound, light, sub-atomic particles, forces, and motion.

10 – Chemistry: Students discover the world of chemistry around them. They learn to ask questions and are challenged to explain their observations. Students develop their own theories, then test and refine them through experimentation.

11 – Biology: In biology, students use scientific investigation to explore topics range from DNA and protein synthesis to natural selection and evolution, building an understanding of the world in which we live.

12 – Forensics/Biotech: **Forensics** is an investigative course where students will learn how to observe, collect, analyze and evaluate evidence found at crime scenes. Some of the many topics covered are fingerprint analysis, hair and fiber comparison, and crime scene analysis. **Biotech** is a lab-based course, and topics will include virus outbreaks, cutting and pasting DNA, discovering why you get sick when your cells aren't reading DNA properly, bioinformatics, and bioethics.

Scholars with Calculus

9 - Honors Physics: Honors physics is an advanced version of physics that uses more math and writing skills and involves more project-based learning.

10 - Honors Chemistry: Students discover the world of chemistry that is around them. They learn to ask questions and are challenged to explain their observations. Students develop their own theories, then test and refine them through experimentation. This course involves more advanced math.

11 - AP Biology: A college-level course for advanced students that studies life on earth from tiny microorganisms to huge animals. This course has an extensive lab component, and can be used to get college credit if the student scores a 3 or higher on AP Biology test at the end of the year.

12 - AP Physics C: AP Physics C will cover linear and circular motion, forces, work, energy, power, and gravity. AP Physics requires concurrent registration in AP Calculus. Students who score 3 or higher on the AP Physics exam can earn college credit equivalent to the first semester of college physics.

Honors Non-Calculus

9 - Honors Physics: Honors physics is an advanced version of physics that uses more math and writing skills and involves more project-based learning.

10 - Honors Chemistry: Students discover the world of chemistry that is around them. They learn to ask questions and are challenged to explain their observations. Students develop their own theories, then test and refine them through experimentation. This course involves more advanced math.

11 - Honors Biology - In honors biology, students create scientific investigations to explore the living world. Topics will range from chemistry of biological processes to heredity and reproduction, building a foundation for success in college level courses.

12 - AP Biology: A college-level course for advanced students that studies life on earth from tiny microorganisms to huge animals. This course has an extensive lab component, and can be used to get college credit if the student scores a 3 or higher on AP Biology test at the end of the year.