

SCHOOL MISSION STATEMENT

Providence Academy

Providence Academy equips students to achieve academic excellence and spiritual maturity through a biblically-based, Christ-centered, classical education, so they will think and live in a manner which brings glory to God.

SCIENCE DEPARTMENT PURPOSE STATEMENT

The purpose of the Providence Academy science department is to help students appreciate and understand the beauty and wonders of God's creation through broad and in-depth studies of various topics within the discipline. By combining the Truth of God's creation, the scientific Laws under which He has placed His creation, and the opportunities to explore the causes and effects of these Laws, the students will develop the scientific and thinking skills to utilize and apply the scientific method in a variety of settings. In addition, students will utilize research and study skills to expand their knowledge and appreciation of great scientists of the past and present.

Science Department Capstone Objectives:

1. Defend the literal interpretation of the biblical account of Creation, including a young earth (thousands not billions of years old) and a Creation week consisting of six consecutive 24-hour days
2. Evaluate the philosophy of evolutionary theory and use effective rhetoric to graciously refute and rebut it
3. Appreciate and utilize the process of science ("how we know what we know") – how experiments are designed, how hypotheses are formed, how data is gathered and analyzed, and how those ideas are communicated to other scientists – based on mastery of science content ("what we know")
4. Recognize and appreciate the interconnections between the disciplines of biology, chemistry and physics.

SCIENCE DEPARTMENT GOALS

The student will:

1. Understand and evaluate the six (24 hour) day account of creation as truth
2. Understand and defend the biblical view of Young Earth Creationism as opposed to unbiblical views including evolution, resisting the tendency to accommodate the creation account to modern scientific theories
3. Understand that science is a process
4. Develop an understanding of molecules and cells
5. Develop an in-depth knowledge of heredity and molecular genetics
6. Develop knowledge of organisms and an understanding of how they relate to one another and their environment
7. Become acquainted with the basic principles of astronomy
8. Develop an understanding of meteorology

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9. Develop a basic knowledge of geology
10. Understand the interrelationships of the hydrosphere
11. Master the mechanics of the structure of matter
12. Develop an understanding of the states of matter
13. Understand the tenets and implications of chemical reactions
14. Develop an understanding of mechanics
15. Establish an understanding of thermodynamics
16. Understand electricity and magnetism
17. Develop an understanding and appreciation of waves and optics
18. Apply the theories of modern physics
19. Develop data collection, analysis, and interpretation skills
20. Develop communication and study skills competence as related to science
21. Develop scientific investigation and evaluation skills
22. Appreciate the value of science to the Christian in his daily life
23. Appreciate the role of Christians in the history and development of the scientific community