

## Science 5

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*Believe in God; believe that he is, and that he created all things, both in heaven and in earth; believe that he has all wisdom, and all power, both in heaven and in earth; believe that man doth not comprehend all the things which the Lord can comprehend. Mosiah 4:9*

Course Description: In this course students will focus on three sciences; geology, astronomy and botany. The units will explore man's observed knowledge of science systems and how it relates to Heavenly Father's creations and His plan for us. The year will begin with the basics of science, the tools of science, and the scientific method (a way of knowing) as well as procedural methods for the class. Instructional methods will consist of the didactic, application methods, intellectual discussion, inquiry based learning, projects and labs. Vocabulary will be taught directly and through contextual format and will be tested. Assessments will include tests and quizzes, writing assignments, projects and labs. Homework will be given and used to support summative assessments.

-Geology will discuss layers of the Earth, causes of geography formations, plate tectonics and Earth's history through fossil formation.

-Astronomy will discuss tools of astronomy, the solar system and its place in the universe, planetary motion (gravity, seasons, day and night, eclipses, tides), formation and life cycle of stars and components of the universe.

-The botany unit will begin with classification and nomenclatures. This will be followed by plants and plant structure, divisions of plants, photosynthesis and gas exchanges and plant reproduction.

Each student will research, reason, relate and record teacher facilitated work in a notebook along with related scripture and words of the prophets and apostles.

Parents can stay informed by reviewing the student notebook on a regular basis and using current school technology. Any other specific questions or comments can be forwarded via email.

### The Seven Principles

Individuality

Self-government

### Their Application to Science

Each creation is unique in design and purpose.

All creations are governed by Him and serve His purposes as we submit to His order.

Christian Character

American scientists have exemplified our heritage of ingenuity and design given by Him.

Conscience

Obedience to conscience by scientists is evident in the scholarship and discovery of new technologies serving His purpose

Government

The scientific method is based on the separation of powers and Christian government is essential to the advancing of scientific discovery.

Local Self-government

Scientific discovery is enabled by local self-government. Scientists governed by Christ spread the truth of their discoveries to benefit all.

Christian Government

A Christian form of government is essential to the development of scientific discovery.