



# CURRICULUM OUTLINE AND SEQUENCE

## Middle School Studies

### 6th Grade Science

Students cover earth, space, life, and physical science. Students explore the concepts of weather, the movement of Earth and other planets through space, magnetism and electricity, and to biomes and ecosystems. Many topics are covered concurrently with reading and language arts to create a greater depth of understanding and application.

### 7th Grade Science

Students cover topics in earth, life and physical science. In earth science students focus on geology and plate tectonics. In life science students focus on cell process, genetics and living organisms. In the area of physical science, students will cover energy. Different lab experiences are also included.

### 8th Grade Science

Students cover topics in Chemistry including atomic structure, periodic table, and writing chemical equations. In the area of Physics students will cover motion, Newton's laws, simple machines and energy. In the area of life science, students will cover the human body focusing on the digestive and excretory systems. Different lab experiences are included.

## High School Studies

### Physical Science

Physical science is a two-semester course specifically designed for students seeking greater academic preparation before taking other science classes. The physical science course explores basic concepts related to chemistry and physics.

### Biology

Biology is a two-semester laboratory course for students of all abilities. Ecology is the primary focus of the course. Botany, zoology, biochemistry, taxonomy, traditional dissection experiences and creation science apologetics are also included.

### Chemistry

Chemistry is a two-semester laboratory course intended to help the student develop an understanding of the structure of matter and its interactions. All major areas of inorganic chemistry are covered. The course is designed to supply an adequate background for students who intend to enroll in college chemistry courses.

### Physics

Physics is a two-semester laboratory course that focuses on the theory and mathematical explanation of topics such as motion, forces, work, energy, heat transfer, light, sound, electricity and magnetism, modern and nuclear physics. *Physics is a Dual Credit course.*

### Advanced Chemistry

Advanced Chemistry expands upon topics covered in chemistry. The course is designed to replicate the academic rigor expected in a college freshman level chemistry course. Students with the goal of pursuing science-related careers are highly encouraged to take this course. *Advanced Chemistry is a Dual Credit course.*

### Anatomy & Physiology

Anatomy and Physiology is consists of two, one-semester courses designed for students of average to above-average ability. This course emphasizes investigation of God's creative genius as displayed in the anatomical and physiological design of the human body. The dissection of major mammalian organs serves as a supplement to learning anatomical parts and is also a highlight of the class.

