

6th Grade Earth Science:

Students will learn about the Earth, the structure of the Earth, the systems that make up the Earth, and the Earth's constructive and destructive forces. They will also learn about cycles. We will focus on the following: Geology, Meteorology, and Environmental Science. The following is a list of specific topics:

- The Scientific Method
- Introduction to Earth Science
- Mapping Earth's Surface
- Minerals
- Rocks
- Plate Tectonics
- Earthquakes
- Volcanoes
- Weathering and Erosion
- Fresh Water
- Ocean Motions
- Environmental Science

7th Grade Life Science:

Students will learn about the biodiversity of life. They will learn about living organisms and the six kingdoms of living things. We will explore these kingdoms. They will also learn about relationships between all living things. The following is a list of specific topics:

- The Scientific Method
- Introduction to Life Science
- Living Things
- Cell Processes and Energy
- Genetics
- Viruses, Bacteria, Protists and Fungi
- Plants
- Sponges, Cnidarians and Worms
- Mollusks, Arthropods, and Echinoderms
- Fishes, Amphibians, and Reptiles
- Birds and Mammals
- Ecology
- Environmental Science

8th Grade Physical Science:

1st Trimester

Students in 8th grade science are introduced to the Scientific Method, Chemistry and discuss how science is an objective way of studying their surroundings. Students learn the differences between being objective and subjective, as well as opinions and facts. During the first trimester, students will use this objectivity to describe matter. The first few chapters cover physical properties, while the second half of the trimester students are introduced to chemistry. Over the course over the trimester, students will participate in several labs in order to gain hands-on knowledge.

2nd Trimester

During the 2nd Trimester, students in 8th grade science are introduced to Physics, energy and discuss the principles of energy conversion and conservation. Over the course of the trimester, students will review math skills used in this field of science, such as metric conversions, graphing and algebraic equations. The trimester's material builds upon itself as students start with the topic of motion and continue through topics including speed, acceleration, force and power.

3rd Trimester

The year finishes off with discussions of stand alone topics which are advances on earlier chapters. Material in this trimester includes Electricity, Magnetism, Wave properties, and the Electromagnetic Spectrum.