

Junior High Science

6th Grade	<p>Introduction to Earth Science – learn lab safety and how to use common lab equipment</p> <p>Weather – study the layers of the atmosphere and the types of storms</p> <p>Meteorology – create a mock weather report using various weather symbols</p> <p>Pollution – identify ways to help promote good air quality</p> <p>Light – study the light spectrum and the various types of light</p> <p>Ecosystems – study the various biomes around the world</p>	<p>Earth's Interior – discover the inner structure of the Earth</p> <p>Heat transfer – identify the three types of heat transfer</p> <p>Volcanoes and Earthquakes – learn the effects of volcanoes and earthquakes on mankind</p> <p>Astrocamp – explore the constellations and the Milky Way galaxy</p> <p>Science Fair – design a science fair project using the scientific method</p> <p>Web Tools – integrate the use of Google apps on class assignments</p>
7th Grade	<p>Introduction to Life Science – learn lab safety and how to use common lab equipment</p> <p>Classification of Living Things – identify the characteristics of living organisms, and understand the current classification systems</p> <p>Microscopes – identify and diagram organisms using a microscope</p> <p>Cells – recognize the primary organelles of the cell and their functions, and explain the difference between a plant, animal and bacteria cell</p> <p>Photosynthesis and Cellular Respiration – understand how plants and animals get their own energy</p> <p>Mitosis and Meiosis – explain the differences between cell division and reproduction</p> <p>Genetics – identify the ways traits are passed down through heredity</p>	<p>Evolution – compare and contrast the Biblical view of creation to evolution</p> <p>Human Body – understand and identify the primary systems of the body and their functions</p> <p>Dissections – learn the inner structure of the body on an invertebrate and vertebrate through squid and frog dissections</p> <p>Catalina – explore the complexity of marine animals and the importance of understanding the impact of pollution on living organisms</p> <p>Science Fair – design a science fair project using the scientific method</p> <p>Web Tools – integrate the use of Google apps on class assignments</p>
8th Grade	<p>Introduction to Physical Science – learn about lab safety, and measure the volume, buoyancy, and density of solids and liquids</p> <p>Metric – convert numbers using the metric system</p> <p>States of Matter – identify the characteristic properties of solids, liquids and gases and recognize the differences between physical and chemical changes</p> <p>Periodic Table – identify the common elements on the periodic table and how they bond</p>	<p>Chemical Reactions – understand the differences between an endothermic and exothermic reaction</p> <p>Solutions, Acids and Bases – determine the pH levels of solutions and effects of acid rain</p> <p>Physics – recognize Newton's Three Laws of Motion, calculate speed and graph motion</p> <p>STEM – work on problem solving skills and learning to collaborate with peers on projects</p> <p>Web Tools – integrate the use of Google apps on class assignments</p>