



**ESCONDIDO
CHRISTIAN
SCHOOLS**

JR. HIGH SCIENCE

6th Grade

Introduction to Earth Science – learn lab safety and how to use common lab equipment

Weather – study the layers of the atmosphere and the types of storms

Meteorology – create a mock weather report using various weather symbols

Pollution – identify ways to help promote good air quality

Light – study the light spectrum and the various types of light

Ecosystems – study the various biomes around the world

Earth's Interior – discover the inner structure of the Earth

Heat transfer – identify the three types of heat transfer

Volcanoes and Earthquakes – learn the effects of volcanoes and earthquakes on mankind

Astrocamp – explore the constellations and the Milky Way galaxy

Science Fair – design a science fair project using the scientific method

Web Tools – integrate the use of Google apps on class assignments

7th Grade

Introduction to Life Science – learn lab safety and how to use common lab equipment

Classification of Living Things – identify the characteristics of living organisms, and understand the current classification systems

Microscopes – identify and diagram organisms using a microscope

Cells – recognize the primary organelles of the cell and their functions, and explain the difference between a plant, animal and bacteria cell

Photosynthesis and Cellular Respiration – understand how plants and animals get their own energy

Mitosis and Meiosis – explain the differences between cell division and reproduction

Genetics – identify the ways traits are passed down through heredity

Evolution – compare and contrast the Biblical view of creation to evolution

Human Body – understand and identify the primary systems of the body and their functions

Dissections – learn the inner structure of the body on an invertebrate and vertebrate through squid and frog dissections

Catalina – explore the complexity of marine animals and the importance of understanding the impact of pollution on living organisms

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8th Grade

Introduction to Physical Science – learn about lab safety, and measure the volume, buoyancy, and density of solids and liquids

Metric – convert numbers using the metric system

States of Matter – identify the characteristic properties of solids, liquids and gases and recognize the differences between physical and chemical changes

Periodic Table – identify the common elements on the periodic table and how they bond

Chemical Reactions – understand the differences between an endothermic and exothermic reaction

Solutions, Acids and Bases – determine the pH levels of solutions and effects of acid rain

Physics – recognize Newton's Three Laws of Motion, calculate speed and graph motion

STEM – work on problem solving skills and learning to collaborate with peers on projects

Web Tools – integrate the use of Google apps on class assignments
