**Science Course Description**

Grades 1-8

**Weather & Water-**

From thrilling storms and calming rains to heat waves and cold snaps, explore all the ways God keeps things growing and changing on our Earth in this engaging science unit. Students will create a Tornado in a Bottle, solve a Misty Mystery, locate clouds with a Cloud Viewer, and conduct many other exciting weather-related experiments throughout this unit! Students will do hands-on activities, fun experiments, watch captivating videos, and view beautiful illustrations and images as they gain an appreciation for the weather and water in our world.

Lesson 1: Introduction to Weather
Lesson 2: Weather, Climate, and Seasons
Lesson 3: Water and Our World
Lesson 4: The Atmosphere
Lesson 5: Air
Lesson 6: Wind
Lesson 7: The Water Cycle
Lesson 8: Clouds and Weather Fronts
Lesson 9: Rain and Rainbows
Lesson 10: Snow, Sleet, Hail, and Freezing Rain
Lesson 11: Thunder and Lightning
Lesson 12: Severe Weather: Tornadoes and Tropical Cyclones
Lesson 13: Weather Forecasting
Lesson 14: The Beauty and Power of Water

**Mammals-**

Students will be immersed in the wonderful world of Mammals as they explore the anatomy, characteristics, and habitats of these unique animals. Explore this fun scientific subject through engaging videos, beautiful images, and hands-on activities. Students will learn about fascinating felines, the mysterious world of bats, and much more.

Lesson 1 – Introduction to Mammals
Lesson 2 – Live Birth & Lactation
Lesson 3 – Odd-Toed Ungulates
Lesson 4 – Even-Toed Ungulates
Lesson 5 – Elephants
Lesson 6 – Primates
Lesson 7 – Felines
Lesson 8 – Canines
Lesson 9 – Monotremes
Lesson 10 – Marsupials
Lesson 11 – Bats
Lesson 12 – Rodents
Lesson 13 – Bears
Lesson 14 – Endangered Animals

**Ecosystems-**

Students will explore the wonders of the vast world that surrounds us, from the amazing creations found in your own backyard to the most extreme biomes on Earth, in the updated Ecosystems science unit. Every little part of the earth, from the drops of water in the ocean to lumbering elephants to each unique person, is an important part of our world!

Lesson 1 – Introduction to Ecology
Lesson 2 – Biotic and Abiotic Factors
Lesson 3 – Levels of Organization
Lesson 4 – The Interconnection of Producers and Consumers
Lesson 5 – Energy Pyramids and Trophic Levels
Lesson 6 – Interactions of Living Things
Lesson 7 – Terrestrial Biomes
Lesson 8 – Aquatic Biomes
Lesson 9 – Ecological Succession

**Reptiles, Amphibians & Fish-**

Students will travel the globe while you explore the amazing world of scaly, slithering, and swimming creatures! The Reptiles, Amphibians, and Fish science unit features easy-to-teach lessons, captivating videos, and exciting activities to immerse children in the lives, characteristics, and ecosystems of these unusual animals.

Lesson 1 – Reptiles, Amphibians, and Fish
Lesson 2 – Turtles
Lesson 3 – Snakes
Lesson 4 – Lizards
Lesson 5 – Crocodilians
Lesson 6 – Tuataras
Lesson 7 – Frogs and Toads, Part 1
Lesson 8 – Frogs and Toads, Part 2
Lesson 9 – Newts and Salamanders
Lesson 10 – Caecilians
Lesson 11 – Fish Features
Lesson 12 – Saltwater Fish
Lesson 13 – Freshwater Fish