

Department: Science

Course Name: Fourth Grade Science

Course Description:

The fourth-grade science curriculum classifies scientific knowledge into the categories of physical, earth, and life sciences. The student will review the types and phases of matter: how it changes, and how it is measured. The student will identify and categorize examples of the types of energy, concentrating on the differences with kinetic and potential energy, and the forces that work when matter moves. From here, the student will look upward towards our solar system and discuss Earth's relationship with the solar system, the moon phases, and other larger astronomical features. The students will explore the composition of Earth itself with a particular focus on classification of rocks and how they are formed. Lastly, the student will take an in-depth look at oceans, living things, cells, and ecosystems. The focus will be on classification of organisms, and how they relate to one another.

Content:

Classifying Living Things

Interactions in Ecosystems

Survival and Change of Living Things

Earth and Moon Cycles

Solar Systems

Weather and Water Cycles

Matter

Changes in Matter

Force and the Laws of Motion

Oceans

Skills:

Identify the needs of living things

Recognize the relationship between organisms

Categorize the different types of animals

Identify the characteristics of an ecosystem

Compare and contrast elements and compounds

Determine the changes in matter

Understand the relationships between Earth, the sun, the moon, and the solar system

Text and Materials:

Bell, Butler, Lederman, et.al., Life Science (Cengage Learning, 2011)

Bell, Butler, Lederman, et.al., Earth Science (Cengage Learning, 2011)

Bell, Butler, Lederman, et.al., Physical Science (Cengage Learning, 2011)

Methods of Instruction:

Lecture

Textbook

Worksheets

Lab

Projects

Methods of Evaluation:

Tests

Quizzes
Homework
Classwork
Class participation
Lab
Lab workbook

