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., <u>Life Science</u> (Cengage Learning, 2011) Bell, Butler, Lederman, et.al., <u>Earth Science</u> (Cengage Learning, 2011) Bell, Butler, Lederman, et.al., <u>Physical Science</u> (Cengage Learning, 2011)

Methods of Instruction:

Lecture Textbook Worksheets Lab Projects

Methods of Evaluation:

Tests

Quizzes Homework Class work Class participation Lab Lab workbook

