

**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 to understand the relationship of basic atomic structure, elements, and compounds. The student will apply this knowledge to the Periodic Table to interpret the chart. The student will identify and categorize examples of the types of energy, with a focus on the sight and sound. Following physical science, the student will explore Earth's physical and chemical history, structure, and the causes, effects, and types of plate tectonic boundaries. 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. Lastly, the student will return to Earth to take an in-depth look at oceans, living things, cells, and ecosystems. The focus will be on classification of organisms, identification of cells and cell parts, and ecosystemic relationships.

**Content:**

Classifying Living Things  
Interactions in Ecosystems  
Survival and Change of Living Things  
Earth and Moon Cycles  
Solar Systems  
Weather and Water Cycles  
Matter, Elements, and Compounds  
Changes in Matter  
Force and the Laws of Motion  
Flow and Transformation of Electrical Energy  
Plate tectonics  
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

Class work

Class participation

Lab

Lab workbook

