

## Sixth Grade Science Syllabus

Sixth grade science is an integrated course of earth, life, and physical concepts taught through the context of the human body, ocean ecosystem, energy and conservation, and space. Interactions and relationships are shown in each unit resulting in student learning beyond the facts of science.



### **Chemistry & Digestion (approximately 35 instructional days)**

Activities in this unit focus on how living systems are defined by the complementary nature of structure and function. Students will study the fundamentals of chemistry and how it relates to the digestive system. This unit culminates with a performance assessment where students will create an element “superhero” from the periodic table and explain how it is responsible for taking care of the human body in the digestive system (or a villain causing trouble in the human body!).



### **Interactions within Ocean Systems (approximately 54 instructional days)**

Students will complete a variety of activities that explore the diversity and classification of living things in the ocean system. Students will explore organization of ecosystems and biodiversity during this topic of study. At the conclusion of the unit, students will create a portfolio describing characteristics of an ocean creature and the relationship between biotic and abiotic factors in the ocean.



### **Wise Use of Natural Resources (approximately 26 instructional days)**

Students will analyze how human choices about obtaining, distributing, and transforming resources impact the environment. Students will be assessed on experimental design and concepts introduced in this unit. Students will design a plan to improve the use of resources in their home, school, or community.



### **Relationships Among Objects in Space (approximately 41 instructional days)**

This unit is a focused study of forces and how these relationships dictate the motion of objects on Earth and in space. Students will design a 2-liter bottle rocket through a series of experiments to illustrate the relationships among these forces.