

Department: Science

Course Name: Second Grade Science

Course Description:

The second-grade science program begins with a study of life science. It explores the importance of plants to life on Earth, which encompasses their life cycle and their needs as they grow. It then moves into a study of animals and their classification. Habitats, both land and water, are explored in detail. Physical science explores physical and chemical changes of matter and continues into forces and motion. The students will investigate energy of motion (mechanical energy, sound, electricity, heat). They will also investigate light and heat. Earth science explores the study of space and the relationship between the Sun and Earth (day/night and seasons). The students will also explore rocks, minerals, and soil; natural resources; weathering and erosion; and plate movements.

Content:

Study the characteristics, needs, and relationships between plants and animals

Learn about the characteristics of different habitats

Study the movements of the sun and moon, and their impact on seasons as well as day/night

Study the effects of forces and motion

Study the Earth's materials

Study the Earth's movement

Skills:

Identify the needs of living things

Identify the relationship between plants and animals

Identify the stages of plant and animal life cycles

Identify the characteristics of an environment/habitat

Investigate forces and motion, energy of motion

Investigate light and heat

Explain the relationship between the Sun and Earth

Text and Materials:

National Geographic Science, 2011

Reading A to Z

Videos

Various supplemental Resources

Methods of Instruction:

Integrated Projects

Whole group instruction

Pair/Share

Discussions

Reading

iPad Apps

Lab experiences

Kinesthetic projects

Hydroponics Lab Lessons

Robotics Lab

Methods of Evaluation:

Individual assessment

Projects

Oral responses

Chapter tests

Lesson quizzes/vocab quizzes

Technology Platforms/Software:

Epic Reading

Seesaw

