

Department: Science

Course Name: First Grade Science

Course Description:

The first grade science program encourages students to become actively engaged in the discovery process by collecting data, analyzing evidence, drawing conclusions, and solving problems.

Experiences provide students with opportunities to work both independently and collaboratively, and to interact with the natural world in order to construct explanations about their world. The science curriculum includes units devoted to plants, animals, sky, weather, natural resources, caring for the earth, matter, magnets, and motion. The science curriculum is integrated into the reading program.

Content:

Plants

Animals

Caring for Earth/Resources

Space

Matter

Motion

Water Cycles

Skills:

Demonstrate curiosity, initiative, and creativity by questioning observations of changes in the environment

Use scientific instruments and everyday materials to investigate the natural world

Use safe and proper techniques for handling, manipulating, and caring for science materials

Collect, record, compare, and organize information using a variety of classification systems

Apply knowledge, understanding and skills of science subject matter/concepts to daily life experiences

Listen to other's ideas, and engage in scientific dialogs

Observe, compare, and analyze living and non-living things

Use simple graphs, pictures, and written statements

Increase student's understanding of the interdependence of plants and animals, and earth and space systems

Predict outcomes and problem solve based on actual observations and evidence

Develop a range of scientific investigations, reasoning, and logic skills

Text and Materials:

Exploring Science All Around Us (Five Ponds Press, 2015)

Mystery Science

Lower School Garden

Hydroponics Lab

Robotics Lab

Videos

Scholastic News

BrainPOP Jr.

Raz Kids

Seesaw

iPads/Apps

Picture books

Methods of Instruction:

Individual, partner, small group, whole group instruction
Teacher directed/self-directed
Technology
Collaborative projects/integrated projects
Discussions
Experiments
Enrichment Classes

Methods of Evaluations:

Individual assessment
Projects
Oral responses
Discussions
Rubrics
Tests

