

Science: Kindergarten

<p>Standard #1 Scientific Investigation Students applied the process of scientific investigation and design, conducted, communicated about, and evaluated investigation.</p>
<p>Standard #2 Physical Science Students understood common properties, forms and changes in matter and energy.</p>
<p>Standard #3 Life Science Students understood the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.</p>
<p>Standard #4 Earth and Space Science Students understood the processes and interactions of Earth's systems and the structure and dynamics of Earth and other space objects.</p>
<p>Standard #5 Scientific Method Students understood that the nature of science involves a particular way of building knowledge and making meaning of the natural world.</p>

Description

The kindergarten science program is an introduction to scientific terminology and methods. The main concepts are life cycles, seasonal differences, and living vs. non-living things. Problem solving, critical thinking skills, and science inquiry are integrated in the science units. Experiential learning will be emphasized focusing on the five physical senses.

Time Allocation
 Fifty minutes daily

Texts/References
Autumn Leaves, Gail Saunders-Smith
Seasons of the Year, Margaret Hall
From Blossom to Fruit, Gail Saunders-Smith
Seeds, Gail Saunders-Smith
Butterflies, Fran Howard
Non-Living Things
 Where Does Water Come From?

Themes /Topics
 Life cycles of animals and plants
 Four seasons
 Living vs. non-living objects
 Scientific method
 Weather

Assessments
 Teacher observations
 Individual and group simple tests
 Science concepts portfolio
 Rubrics

Grades and Achievement Levels
 Grades are based on class participation, teacher observation, and projects. The rating is based upon the student's attainment of the grade level expectations.

Essential Learning: Science Kindergarten

**Standard # 1
Scientific Investigation**
Students applied the process of scientific investigation and design, conducted, communicated about, and evaluated investigation.

- Scientific observations and questions in individual and whole group settings

**Standard # 2
Physical Science**
Students understood common properties, forms and changes in matter and energy.

- Weather and seasonal changes

**Standard # 3
Life Science**
Students understood the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

- Characteristics of living and non-living things
- Changes in structure and function of living things

**Standard # 4
Earth and Space Science**
Students understood the processes and interactions of Earth's systems and the structure and dynamics of Earth and other space objects.

- Characteristics of and changes in the four seasons

**Standard # 5
Scientific Method**
Students understood that the nature of science involves a particular way of building knowledge and making meaning of the natural world.

- Application of scientific knowledge to everyday activities
- Interrelationships among science and human activities that affect the world

Expectations: Science Kindergarten

Standard #1	Standard #2	Standard #3	Standard #4	Standard #5
<ol style="list-style-type: none">1. Communicated results of observations, questions and investigations	<ol style="list-style-type: none">1. Understood properties of weather	<ol style="list-style-type: none">1. Explained properties of living and non-living things2. Explained the life cycle of plants3. Explained the life cycle of animal	<ol style="list-style-type: none">1. Identified the differences among the four seasons	<ol style="list-style-type: none">1. Determined that there are interrelationships among science and human activities that affect the world2. Applied scientific reasoning