



# Archdiocese of Washington Catholic Schools

## Academic Standards

### Science

## Kindergarten

### Standard 1 - The Nature of Science and Technology

*Students are actively engaged in beginning to explore how their world works. They explore, observe, ask questions, discuss observations\*, and seek answers.*

#### Scientific Inquiry

K.1.1 Raise questions about the natural world.

#### The Scientific Enterprise

K.1.2 Begin to demonstrate that everyone can do science.

\* observation: gaining information through the use of one or more of the senses, such as sight, smell, etc.

### Standard 2 - Scientific Thinking

*Students use numbers, pictures, and words when observing and communicating to help them begin to answer their questions about the world.*

#### Computation and Estimation

K.2.1 Use whole numbers\*, up to 10, in counting, identifying, sorting, and describing objects and experiences.

#### Communication

K.2.2 Draw pictures and write words to describe objects and experiences.

\* whole number: 0, 1, 2, 3, etc.

### Standard 3 - The Physical Setting

*Students investigate, describe, and discuss their natural surroundings. They begin to question why things move.*

#### Matter and Energy

K.3.1 Describe objects in terms of the materials they are made of, such as clay, cloth, paper, etc.

#### Forces of Nature

K.3.2 Investigate that things move in different ways, such as fast, slow, etc.



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#### Standard 4 - The Living Environment

*Students ask questions about a variety of living things and everyday events that can be answered through shared observations.*

##### Diversity of Life

K.4.1 Give examples of plants and animals.

K.4.2 Observe plants and animals, describing how they are alike and how they are different in the way they look and in the things they do.

#### Standard 5 - The Mathematical World

*Students use shapes to compare objects and they begin to recognize patterns.*

##### Shapes and Symbolic Relationships

K.5.1 Use shapes — such as circles, squares, rectangles, and triangles — to describe different objects.

#### Standard 6 – Patterns in Science

*Students begin to understand how things are similar and how they are different. They look for ways to distinguish between different objects by observation.*

##### Models and Scale

K.6.1 Describe an object by saying how it is similar to or different from another object.