

Pre-Kindergarten: Science

Stage 1 Desired Results

ESTABLISHED GOALS:

Competencies:

- *Students will demonstrate the ability to use their knowledge of the world around them in order to draw conclusions based on physical properties seen and unseen.*

Content Standards:

Exploring the Physical World

- Identify the properties of various living things and what living things need to be able to survive.
- Talk about environmental changes and phenomena (weather, seasons, sun, and moon).
- Show interest in caring for the earth and environment.
- Explore simple physical science concepts such as force, motion, and gravity.

Object Permanence

- talk about things or people that are not present.
- Use a variety of forms (drawings, block structures, movement, and other materials) to represent their ideas and feelings.

Transfer

*Students will be able to independently use their learning to **recognize the physical properties of living and non-living things and how they interact.***

Meaning

ENDURING UNDERSTANDINGS

Students will understand that...

- living things have basic needs.
- there are environmental changes that we see everyday.
- caring for the Earth will help preserve it.
- there is a reason why things move.

ESSENTIAL QUESTIONS

- Why is it important to take care of the environment?
- How do things move?
- How does what I do affect the environment?

Acquisition

Students will know...

- that living things have certain characteristics and specific needs (ie. water and food).
- that living things respond to changes in their environment and changes in seasons.
- that living things require individualized habitats.
- that plants and animals have specific structures (ie. stems, roots, leaves, eyes, mouths, ears. etc.).
- that objects can be categorized based on their properties.
- that they can use their senses to explore different environments.

vocabulary: plants, animals, living, non-living, characteristics, habitat, environment, seasons, needs, grow, life cycle, senses, forces, pushes, pulls, energy,

Students will be skilled at...

- recognizing the characteristics of a living thing.
- describing the basic habitats of living things.
- asking questions about objects, events, and animals observed in their environment.
- talking about environmental changes and phenomena such as the weather, seasons, sun and moon.
- exploring with elements of nature, such as sand and water.
- exploring ways to care for the environment.
- exploring concepts such as force, motion and gravity.
- developing object permanence and understanding that objects continue to exist even when out of sight.
- describing what the weather is like where they are located.

	weather, recycle, reuse, reduce, gravity, Earth, planet	
Content Area Literacy Standards		21st Century Skills
<i>not applicable</i>		<ul style="list-style-type: none">• <i>make judgments and decisions</i>• <i>work creatively with others</i>• <i>collaborate with others</i>• <i>use and manage information</i>