

Science Curriculum Map Kindergarten

AUGUST

L6. Recognize that people and other animals interact with the environment through their senses of sight, hearing, touch, taste, and smell.

T1.3 identify and describe the safe and proper use of tools and materials (glue, scissors, tape, ruler, paper, toothpick, straws, spools) to construct simple structures.

T2.2 Describe how human beings use parts of the body as tools (e.g. teeth for cutting, hands for grasping and catching) and compare their use with the ways in which animals use those parts of their body.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Experiment with and label the five senses
- Demonstrate that the five senses are used to describe and identify objects
- Sequencing, sorting and matching activities with pictures and objects in the classroom

ASSESSMENT STRATEGIES AND ACTIVITIES

Students will demonstrate their knowledge/skill by:

Telling and/or drawing experiments and results.

Recording data.

Identifying patterns.

Arranging objects in sets or order.

Describe characteristics and changes.

SEPTEMBER

E 1. Use appropriate vocabulary to describe and classify natural materials.

E3. Describe the weather changes from day-to-day and over the seasons.

E5 Based on personal experience and observation, identify natural events with repeating patterns.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Describe the weather in each of the four seasons
- Use key vocabulary to discuss the weather
- Play word games to describe and classify natural materials, forms, and living things
- Chart the daily weather
- Experiment with the temperature of shade and sun to recognize that the sun supplies heat
- Use read alouds to stimulate discussion about weather related outdoor activities.

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OCTOBER

L2. Differentiate between living and non-living things according to the characteristics that they share.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Sort and classify pictures of plants and animals
- Describe and compare objects

ASSESSMENT STRATEGIES AND ACTIVITIES

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NOVEMBER

P5. Recognize that under some conditions, objects can be balanced.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Compare sizes and weights of various objects without measuring
- Hibernation

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Describe characteristics and changes.

DECEMBER

E 1. Use appropriate vocabulary to describe and classify natural materials.

E3. Describe the weather changes from day-to-day and over the seasons.

E5 Based on personal experience and observation, identify natural events with repeating patterns.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Describe the weather in each of the four seasons
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JANUARY

T1.1 Identify and describe characteristics of natural materials (e.g. wood, cotton, fur, wool) and human-made materials (e.g. plastic, styrofoam)

T1.2 Identify and explain some possible uses for natural materials.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Sort objects, both natural and man-made materials, based on observable properties
- Explain the uses for natural materials and man-made materials
- Sequencing, sorting and matching activities with pictures and objects in the classroom

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FEBRUARY

E4. Describe properties of the sun that they have observed, i.e. melt ice or snow, feel warmth on playground equipment, growth of plants, dry puddles.

P2. Identify objects and materials as solid, liquid, or gas. Recognize that solids have a definite shape and that liquids and gases take on the shape of their containers.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Identify and sort objects as solid (by shape) or liquid.
- Animal Tracks

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Recording data.

Identifying patterns.

Arranging objects in sets or order.

Describe characteristics and changes.

MARCH

E 1. Use appropriate vocabulary to describe and classify natural materials.

E 2 Describe the following properties of air:

Wind is moving air

Air can move things.

E5 Based on personal experience and observation, identify natural events with repeating patterns.

E3. Describe the weather changes from day-to-day and over the seasons.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Describe the weather in each of the four seasons
- Use key vocabulary to discuss the weather
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APRIL

L3. Recognize that plants and animals have life cycles, and that life cycles vary for different living things.

L7. Recognize changes in appearance that animals and plants go through as the seasons change.

L8. Identify the ways in which an organism's habitat provides for its basic needs (plants require air, water, nutrients, and light; animals require food, water, air, shelter).

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Identify the stages of plant growth
- Describe and compare the changes in the appearance of animals and plants during the different seasons
- Describe where animals live and where plants grow. Describe what animals & plants need to live
- Use recycled materials to construct simple structures

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MAY

JUNE

P3. Describe the various ways that objects can move, such as in a straight line, zigzag, back & forth, round & round, fast and slow.

SUGGESTED TEACHING STRATEGIES AND LEARNING ACTIVITIES

- Observe, manipulate, and describe position and motion of moveable objects.

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Describe characteristics and changes.

Earth/Space- E

Life Science-L

Physical Science-P

Technology & Engineering-T