

Unit/Topic Title: **Documenting The World**

Trimester: **3rd**

Estimated Time (When): **May (3 Weeks) 15 days**

<b>Standard(s)</b> 3. Earth Science	
<b>Prepared Graduates:</b>	
<ul style="list-style-type: none"> <li>➤ Describe how humans are dependent on the diversity of resources provided by Earth and Sun</li> <li>➤ Events such as night, day, the movement of objects in the sky, weather, and seasons have patterns</li> </ul>	
<b>Grade Level Expectation: Preschool</b>	
<b>Concepts and skills students master:</b>	
<ul style="list-style-type: none"> <li>• Earth's materials have properties and characteristics that affect how we use those materials. (3.1)</li> <li>• Events such as night, day, the movement of objects in the sky, weather, and seasons have patterns. (3.2)</li> </ul>	
<b>Evidence Outcomes</b>	<b>21<sup>st</sup> Century Skills and Readiness Competencies</b>
<b>Students can:</b> <ul style="list-style-type: none"> <li>• Make simple observations, explanations, and generalizations about Earth's materials based on real-life experiences (3.1.b)</li> <li>• Describe how various materials might be used based on characteristics or properties (3.1.c)</li> <li>• Observe and describe patterns observed over the course of a number of days and nights, possibly including differences in the activities or appearance of plants and animals (3.2.b)</li> </ul>	<b>Inquiry Questions:</b> <ul style="list-style-type: none"> <li>• What are the similarities and differences among various earth materials?</li> <li>• How do scientists study and describe Earth's materials?</li> <li>• What natural patterns do you notice during the day?</li> <li>• What natural patterns do you notice at night?</li> <li>• What patterns do you notice in the seasons?</li> <li>• What patterns do you notice in weather?</li> </ul>
	<b>Relevance and Application:</b> <ul style="list-style-type: none"> <li>• Use scientific tools in investigations, and play with materials such as rocks, soil, sand, and water.</li> <li>• Different activities of various animals - including humans - are aligned with daily and seasonal patterns.</li> </ul>
	<b>Nature of Science:</b> <ul style="list-style-type: none"> <li>• Ask testable question based on discoveries made while playing.</li> <li>• Collect, describe, and record information through discussions, drawings, and charts.</li> <li>• Be open to and curious about new tasks and challenges.</li> <li>• Explore and experiment</li> </ul>

**Essential Vocabulary**

- Describe Earth's materials, sink, float, dissolve, absorb, adhere, attract, repel, nocturnal, opposites in nature (night/day, hot/cold, etc.), same/different, plants and animals

**Assessments**

- Teaching Strategies GOLD™
  - 12. Remembers and connects experiences
    - 12b. Makes connections
      - 6. Draws on everyday experiences and applies this knowledge to a similar
  - 26. Demonstrates knowledge of the physical properties of objects and materials
  - 27. Demonstrates knowledge of Earth's environment
  - 23. Demonstrates knowledge of patterns
    - 6. Extends and creates simple repeating patterns
  - 27. Demonstrates knowledge of Earth's environment

**Instructional Resources**

- The Creative Curriculum System - Objectives for Development and Learning: Birth Through Kindergarten, pages 132-134
- FOSS Kits: Sink and Float, Insects and Spiders, Weather
- Science To-Go Kits: Cold Hard Water