**Unit/Topic Title:** Documenting The World  
**Estimated Time (When):** May (3 Weeks) 15 days

<table>
<thead>
<tr>
<th>Standard(s)</th>
<th>3. Earth Science</th>
</tr>
</thead>
</table>

**Prepared Graduates:**  
- Describe how humans are dependent on the diversity of resources provided by Earth and Sun  
- Events such as night, day, the movement of objects in the sky, weather, and seasons have patterns

**Grade Level Expectation:** Preschool

**Concepts and skills students master:**  
- Earth’s materials have properties and characteristics that affect how we use those materials. (3.1)  
- Events such as night, day, the movement of objects in the sky, weather, and seasons have patterns. (3.2)

<table>
<thead>
<tr>
<th>Evidence Outcomes</th>
<th>21st Century Skills and Readiness Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students can:</td>
<td>Inquiry Questions:</td>
</tr>
<tr>
<td>- Make simple observations, explanations, and generalizations about Earth’s materials based on real-life experiences (3.1.b)</td>
<td>- What are the similarities and differences among various earth materials?</td>
</tr>
<tr>
<td>- Describe how various materials might be used based on characteristics or properties (3.1.c)</td>
<td>- How do scientists study and describe Earth’s materials?</td>
</tr>
<tr>
<td>- 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)</td>
<td>- What natural patterns do you notice during the day?</td>
</tr>
<tr>
<td>- What are the similarities and differences among various earth materials?</td>
<td>- What patterns do you notice at night?</td>
</tr>
<tr>
<td>- How do scientists study and describe Earth’s materials?</td>
<td>- What patterns do you notice in the seasons?</td>
</tr>
<tr>
<td>- What natural patterns do you notice during the day?</td>
<td>- What patterns do you notice in weather?</td>
</tr>
<tr>
<td>- What patterns do you notice at night?</td>
<td></td>
</tr>
<tr>
<td>- What patterns do you notice in the seasons?</td>
<td></td>
</tr>
<tr>
<td>- What patterns do you notice in weather?</td>
<td></td>
</tr>
</tbody>
</table>

**Inquiry Questions:**  
- Use scientific tools in investigations, and play with materials such as rocks, soil, sand, and water.  
- Different activities of various animals - including humans - are aligned with daily and seasonal patterns.

**Relevance and Application:**  
- Ask testable question based on discoveries made while playing.  
- Collect, describe, and record information through discussions, drawings, and charts.  
- Be open to and curious about new tasks and challenges.  
- Explore and experiment

**Nature of Science:**
Unit 8 Plan

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

- FOSS Kits: Sink and Float, Insects and Spiders, Weather
- Science To-Go Kits: Cold Hard Water