Unit/Topic Title: **Predicting Changes**  
Estimated Time (When): **March (4 weeks) 20 days**

### Standard(s)  
1. Physical Science  
2. Life Science

### Prepared Graduates:  
- Apply an understanding of atomic and molecular structure to explain the properties of matter, and predict outcomes of chemical and nuclear reactions  
- Explain and illustrate with examples how living systems interact with the biotic and abiotic environment  
- Analyze the relationship between structure and function in living systems at a variety of organizational levels, and recognize living systems' dependence on natural selection

### Grade Level Expectation: Preschool

#### Concepts and skills students master:  
- Objects have properties and characteristics (1.1)  
- Living things develop in predictable patterns (2.2)

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<tr>
<th>Evidence Outcomes</th>
<th><strong>21st Century Skills and Readiness Competencies</strong></th>
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<tbody>
<tr>
<td>Students can:</td>
<td><strong>Inquiry Questions:</strong></td>
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<tr>
<td>• Make simple observations, predictions, explanations, and generalizations based on real-life experiences (1.1.b.)</td>
<td>• How are various objects similar and different?</td>
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<tr>
<td>• Predict, explain, and infer patterns based on observations and representations of living things, their needs, and life cycles (2.2.b.)</td>
<td>• How do different living things change over time?</td>
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<td>• What are some similarities and differences in how living things develop?</td>
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<td>• How do the adults of various animals compare to younger versions of those same animals?</td>
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#### Relevance and Application:  
- Use scientific tools such as magnets, magnifying glasses, scales, and rulers in investigations and play.  
- Butterflies have a predictable growth cycle.  
- Leaves on a tree change color and fall every year.

#### Nature of Science:  
- Be open to and curious about new tasks and challenges.  
- Explore and experiment.
**Unit 6 Plan**

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<th>Unit 6 Plan</th>
<th>Preschool Science</th>
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- Show capacity for invention and imagination.
- Ask questions based on discoveries made while playing.
- Show a capacity for invention and imagination when looking for patterns of development.

## Essential Vocabulary

- Mastery: predict, observe, explain, patterns and life cycle

## Assessments

- Teaching Strategies GOLD™
  - 12. Remembers and connects experiences
  - 12b. Makes connections
    - 6. Draws on everyday experiences and applies this knowledge to a similar situation
  - 23. Demonstrates knowledge of patterns
    - 6. Extends and creates simple repeating patterns

## Instructional Resources

- Science To-Go Kits: Shapes, Shapes and More Shapes, Seeing Red and Other Colors, Classy Color, Tempting Tidbits, Colorama