ST. VRAIN VALLEY SCHOOLS
academic excellence by design

Unit 6 Plan

Preschool Science
2014-2015

Unit/Topic Title: **Predicting Changes**

Trimester: **3rd**

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)

Evidence Outcomes	21st Century Skills and Readiness Competencies
Students can: • Make simple observations, predictions, explanations, and generalizations based on real-life experiences (1.1.b.) • Predict, explain, and infer patterns based on observations and representations of living things, their needs, and life cycles (2.2.b.)	**Inquiry Questions:** • How are various objects similar and different? • How do different living things change over time? • What are some similarities and differences in how living things develop? • How do the adults of various animals compare to younger versions of those same animals?
	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.

	• 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

- The Creative Curriculum System - Objectives for Development and Learning: Birth Through Kindergarten, pages 126-131.
- Science To-Go Kits: Shapes, Shapes and More Shapes, Seeing Red and Other Colors, Classy Color, Tempting Tidbits, Colorama