

SENECA VALLEY SCHOOL DISTRICT

CURRICULUM

Course Title:	Science
Grade Level(s):	Kindergarten
Periods Per Week:	5
Length of Period:	25 Minutes
Length of Course:	Full Year
Faculty Author(s):	Kim Willoughby and Stephanie Schultz
Date:	February 25, 2015

COURSE DESCRIPTION:

Science instruction in the SVSD will be based on inquiry-based learning process in a developmentally appropriate method using a learning cycle. At the kindergarten grade level students will be actively engaged in learning related to life sciences, physical sciences, and earth and space.

The state has developed anchors (points of focus) in Science. The anchors specify eligible content for the content areas. The anchors include standards 1.1, 1.2, and 1.3

The Objectives that address anchors have been bolded.

The following outline provides a general overview of the course content, not a chronological timetable. The weeks denoted for each area provide an idea for the overall time spent working with a given topic throughout the school year.

COURSE OUTLINE	OBJECTIVES (PA standard)			
<p>Life Science</p> <p>I. Five Senses</p> <p>A. Seeing</p> <p>B. Hearing</p> <p>C. Smelling</p> <p>D. Tasting</p> <p>E. Touching</p>	<p>Identify a scientific fact as something that can be observed using the five senses. S.K-2.A.1.1.1</p> <p>Describe outcomes of an investigation. S.K-2.A.2.1.2</p> <p>Identify simple tools that can be used in an investigation (e.g., measuring cup, hand lens, ruler, balance scale, thermometer). S.K-2.A.2.2.1</p> <p>Understand that making a change to an investigation may change the outcome(s) of the investigation. S.K-2.A.2.1.1</p>			

COURSE OUTLINE	OBJECTIVES (PA standard)			
<p>II. Physical Science</p> <p>A. Investigating systems, models, and patterns</p> <ol style="list-style-type: none"> 1. Path of Motion 2. Pattern of Movement 3. Result of Force 4. Spinning Motion 5. Construct a Model 	<p>Describe a system as being made of multiple parts that work together. S.K-2.A.3.1.1.</p> <p>Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. 3.2.K.B7</p> <p>Plan and conduct a simple investigation and understand that different questions require different kinds of investigations. 3.2.K.B7</p> <p>Use simple equipment (tools and other technologies) to gather data and understand that this allows scientists to collect more information than relying only on their senses to gather information. 3.2.K.B7</p> <p>Use data/evidence to construct explanations and understand that scientists develop explanations based on their evidence and compare them with their current scientific knowledge. 3.2.K.B7</p>			

COURSE OUTLINE	OBJECTIVES (PA standard)			
<p>III. Earth and Space</p> <p>A. Seasons</p> <ol style="list-style-type: none"> 1. Environmental Changes 2. Descriptions <p>B. Weather</p> <ol style="list-style-type: none"> 1. Daily changes 2. Descriptions 	<p>Identify a model. S4A.3.2.1</p> <p>Identify patterns in systems. S4.A.3.2.2</p> <p>Identify patterns in everyday life. S4.A.3.3.1</p> <p>Determine the order of events of everyday activities S4.A.3.3.2</p> <p>Identify that a habitat changes. S4.B.3.2.1</p> <p>Develop and awareness of changes in the environment. S4B.3.2.2</p> <p>Identify the seasons. S4.B.3.2.3</p>			