SENECA VALLEY SCHOOL DISTRICT

CURRICULUM

Course Title: Math

Grade Level(s): Kindergarten

Periods Per Week: 5

Length of Period: 30 Minutes Length of Course: Full Year

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Date: November 28, 2012

COURSE DESCRIPTION:

This course will thoroughly prepare students in four Mathematical areas. These areas include: numbers and operations, algebraic concepts, geometry, as well as measurement, data, and probability. Emphasis will be placed on the identification and application of numerical knowledge. All concepts will be integrated throughout the curriculum and applied to the students' daily lives. At the end of the Kindergarten school year, students will have developed the skills for a solid foundation in the Seneca Valley School District.

This document is based on the Common Core State Standards for Pennsylvania.

COURSE OUTLINE	OBJECTIVES (PA standards & Federal standards)	RESOURCES	LESSON REFLECTION
 I. Numbers and Operations A. Counting and Cardinality Daily Calendar Activities Number Sense Activities Math Stories Thematic Word Problems Create and analyze graphs Math tasks 	CC.2.1.K.A.1 Know number names and write and recite the count sequence. • Know number names to 20. • Write numbers to 20. • Count orally to 100. CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects. • Match numbers to equivalent sets to 20.	Number Line Ten Frame Count and Group Numbers by: 2's, 5's, and 10's Flash Cards Manipulatives Pictures Calendar Activities	
	 CC.2.1.K.A.3 Apply the concepts of magnitude to compare numbers and quantities. Compare groups to determine more, less, most, least, fewer, fewest, greater than, less than, equal. 	Graphs	
 B. Numbers and Operations in Base Ten Daily Calendar Activities Number Sense Activities Math Word Problems and Math Tasks 	 CC. 2.1.K.B.1 Use place value to compose and decompose numbers within 19. Create and break apart numbers more than one way. Break apart numbers into tens and ones. 	Place Value Charts for 1's, 10's, and 100's Place Value Blocks Math Tasks: Boots and Hats Grab and Count	

COURSE OUTLINE	OBJECTIVES (PA standards & Federal standards)	RESOURCES	LESSON REFLECTION
 II. Algebraic Concepts A. Operations and Algebraic Thinking Daily Calendar Activities Thematic manipulatives Adding 1 Adding 2 Subtracting 1 Subtracting 2 Basic Facts Problems Thematic Word Problems Math Tasks 	CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10. • Solve addition and subtraction equations to 10 with manipulatives.	Manipulatives Pictures Basic Facts Problems Word Problems Math Tasks Incredible Equations Tally Marks Math Tasks: Bunk Beds 2D and 3D Shape Blocks Find 2D shapes within 3D shapes	

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III.Geometry A. Geometry Art Projects Thematic Patterns Finding Shapes in the room and in pictures Labeling parts of a shape using blocks	 CC.2.3K.A.1 Identify and describe two and three dimensional shapes. Name two-dimensional shapes: circle, square, rectangle, and triangle. Name three-dimensional shapes: sphere, cone, cube, cylinder. 	Tangrams to build shapes with other shapes and to break apart shapes into other shapes Play dough Geoboards Math Tasks:	
	CC.2.3.K.A.2 Analyze, compare, create, and compose two and three dimensional shapes. List attributes of two and three dimensional shapes.	*Shapes on the Playground Shape Sort *Use the more accessible version.	
IV. Measurement, Data and			
 A. Measurement and Data Thematic nonstandard units of measurement Math Tasks 	CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.	Manipulatives Nonstandard Units of Measurement	
 B. Statistics and Probability Sorting thematic objects or pictures Sorting by one and more than one attribute Graphing 	CC.2.4.K.A.4 Classify objects and count the number of objects in each category.	Rulers Scales Math Tasks: Measuring *Use the more accessible version	