

Course Title: Kindergarten Math **Board Approval Date:** June, 2010

Course Description:

The kindergarten math curriculum introduces students to a variety of basic mathematical concepts. The course content is derived from the PA Academic Standards for Mathematics in Kindergarten. Students will develop number sense and one-to-one correspondence as they learn to write, identify and count sets of objects to 20. Students will also develop the skills needed to count to 100 by 1's and 10's. Problem solving skills are practiced in every unit of study. For example, students will learn to compare sets, analyze data using graphs, continue patterns, and estimate quantities. In Geometry students will apply critical thinking skills as they sort plane and solid shapes by similar attributes. Students will also explore concepts of measurement including, length, height, weight and capacity using non-standard units of measurement. In addition, they will learn to measure time to the hour using digital and analog clocks and longer periods of time using calendars. Students will be introduced to the concept of money, to include the coins, penny, nickel, dime and quarter. Finally students will be introduced to the concepts of addition and subtraction.

Learning Activities / Modes of Assessment:

Large group instruction	Chapter and Unit Tests
Learning Centers	Checklists / Teacher Observation
Small group work	Use of Manipulatives
Computer programs	Children's Literature

Instructional Resources:

Dr. Greenes, Carol, et al. *Houghton Mifflin Math*. Houghton Mifflin Co., 2007
Manipulatives
Age appropriate Internet resources

Course Pacing Guide

Course: Kindergarten Math

Course Unit (Topic)	Length of Instruction
1. Number, Counting and Estimation	40 Days
2. Geometry	30 Days
3. Measurement	25 Days
4. Money	15 Days
5. Addition and Subtraction	20 Days
6. Data and Problem Solving	30 Days
7. Grade 1 Preview	10 Days