

Pre-Kindergarten Math Curriculum

Text:	Abrams & Company, Inc. (2005), <i>Big Book Math Program</i> , Waterbury, CT.
Supplemental Materials:	Teacher created materials
Course Description:	<p>The Pre-Kindergarten math program is designed to introduce and familiarize students with beginning math concepts. These concepts include:</p> <ul style="list-style-type: none"> • Understanding numbers, ways of representing numbers, relationships among numbers, and number systems. • Beginning to recognize characteristics and properties of two-dimensional and three-dimensional geometric shapes; symmetry and spatial reasoning. • Understanding patterns, relations, and functions. • Beginning to understand measureable attributes of objects and the units, systems, and processes of measuring • Beginning to understand the concept of time, including clock time and calendar time, yesterday and tomorrow, and morning, noon, and night. • Beginning to understand how to collect, organize, and display data on graphs. • Beginning to understand the concepts of part, whole, some, all, less, more, and equal groups. • Grouping objects by size, shape, weight, and other similarities and differences. • Beginning to understand the concept of estimation, solving problems, and predicting outcomes.
Methods of Evaluation:	Students can be evaluated through one-on-one assessments, observation, and daily class participation.
Pace of Instruction:	New concepts are introduced monthly, with continued integration throughout the school year. Concepts are constantly being reviewed and reinforced.
Course Objectives:	<p>At the end of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Recognize numerals 0-20. 2. Understand one-to-one correspondence, matching objects. 3. Develop a sense of whole numbers. 4. Recognize and name basic shapes. 5. Begin to explore and name solid shapes. 6. Identify, complete, and create two element patterns. 7. Begin to understand and use words associated with time of day and time of year. 8. Begin to understand that information can be organized and displayed in different ways. 9. Begin to understand that there are many ways of measuring things. 10. Write numerals 0-20. 11. Sort objects by colors, sizes, shapes, and other attributes. 12. Rote count to 50. 13. Begin to understand when to apply problem solving skills.