

## Mathematics - PreKindergarten

<b>Text:</b>	Abrams & Company, Inc. (2005), <u>Big Book Math Program</u> , Waterbury, CT.
<b>Supplemental Materials:</b>	Teacher created materials
<b>Course Description:</b>	<p>The PreKindergarten math program is designed to introduce and familiarize students with beginning math concepts. These concepts include:</p> <ul style="list-style-type: none"><li>• Understanding numbers, ways of representing numbers, relationships among numbers, and number systems.</li><li>• Beginning to recognize characteristics and properties of two-dimensional and three-dimensional geometric shapes; symmetry and spatial reasoning.</li><li>• Understanding patterns, relations, and functions.</li><li>• Beginning to understand measurable attributes of objects and the units, systems, and processes of measuring.</li><li>• Beginning to understand the concept of time, including clock time and calendar time, yesterday and tomorrow, and morning, noon and night.</li><li>• Beginning to understand how to collect, organize and display data on graphs.</li><li>• Beginning to understand the concepts of part, whole, some, all, less, more, and equal groups.</li><li>• Grouping objects by size, shape, weight, and other similarities and differences.</li><li>• Beginning to understand the concept of estimation, solving problems, and predicting outcomes.</li></ul>
<b>Methods of Evaluation:</b>	Students are evaluated through one-on-one teacher assessments, observation, and daily class participation.
<b>Pace of Instruction:</b>	New concepts are introduced monthly, with continued integration throughout the school year. Concepts are constantly being reviewed and reinforced.

<b>Course Objectives:</b>	<p>At the end of this course students will be able to:</p> <ol style="list-style-type: none"><li>1. Recognize numerals 1-20.</li><li>2. Understand one-to-one correspondence, matching objects.</li><li>3. Develop a sense of whole numbers.</li><li>4. Recognize and name basic shapes.</li><li>5. Begin to explore and name solid shapes.</li><li>6. Identify, complete, and create two element patterns.</li><li>7. Begin to understand and use words associated with time of day and time of year.</li><li>8. Begin to understand that information can be organized and displayed in different ways.</li><li>9. Begin to understand that there are many ways of measuring things.</li><li>10. Write numerals 1-10.</li><li>11. Sort objects by colors, sizes, shapes, and other attributes.</li><li>12. Rote count to 50.</li><li>13. Begin to understand when to apply problem solving skills.</li></ol>
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