Math (Grade 4K)

Course Description:

The curriculum for this course is developed from the Wisconsin Model Early Learning Standards. Throughout the year the students will be introduced to many beginning math skills, including but not limited to, numbers, shapes, colors, and math vocabulary. The 4K students will learn through active hands on experiences, play based centers, and small group lessons. The math program is built upon children's curiosity, enthusiasm, and math knowledge. This curriculum will build a foundation to which children will become lifelong learners.

Essential Understandings:

1. An awareness to numbers and counting develops an understanding of number sense. (B.EL.1)
2. The relationship between number operations in the real world sets a foundation for learning complex mathematical concepts. (B.EL.2)
3. Two and three dimensional shapes can be identified to recognize geometry in the natural and manmade world. (B.EL.3)
4. Objects can be sorted, matched and patterned by different characteristics. (B.EL.4)
5. Measurement can be used to compare, identify, and explore objects using different tools. (B.EL.5)
6. Information can be collected, read, recorded and deciphered through the different senses to create an understanding of the environment. (B.EL.6)

Unit	Description of Unit and Learning Targets
Numbers • What are the names of the numbers?	Through the use of different materials the students will learn to count, identify, write, and group by numbers. Learning Targets: • I can count. • I can identify numbers 1-10. • I can write numbers. • I can group objects. • I can identify more than, less than, and the same.
Shapes • What are the names of the shapes?	Students will be able to name 2D and 3D shapes. Learning Targets: • I can name 2D shapes. • I can name 3D shapes. • I can group by shape.
Colors • What are the names of the colors?	Throughout the year students will participate in different activities to identify and group colors. Learning Targets: • I can identify colors. • I can group by color.
Spacial Relationships • Can you place an object in different positions?	Students will use the environment around them to show different positions in space. Learning Targets:

	● I can identify positional words.
Comparing and Patterning ● How can you use your senses to determine the way things feel and sound?	Students can use their senses to understand the differences in the way things feel and sound. Throughout the year students will use math manipulatives to make patterns and match objects. <u>Learning Targets:</u> ● I can explore textures and sounds. ● I can explore patterns. ● I can match objects. ● I can identify objects that are the same and different.
Measurement ● How can you use measurement tools explore size and weight?	Students will use different measurement tools to manipulate objects according to size and weight. <u>Learning Targets:</u> ● I can identify big and small. ● I can identify long and short. ● I can identify short and tall. ● I can compare size. ● I can identify wide and narrow ● I can identify thick and thin. ● I can explore measurement tools. ● I can explore heavy and light.
Graphs and Charts ● What are graphs and charts?	Students will use rules to manipulate data into graphs and charts. <u>Learning Targets:</u> ● I can understand graphs and charts. ● I can make a graph.