

**Bethlehem Lutheran School
Math Kindergarten**

In recognizing the need for understanding and mastering mathematical computations and concepts, the philosophy of the mathematics program is to involve each student in a learning program that blends mathematical skills with practical applications to their daily Christian lives.

State Standard 1

Students develop number sense and use of numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Classroom objectives

The student will:

- 1.1 Use objects and pictures to represent whole numbers.
- 1.2 Demonstrate sets of equal numbers.
- 1.3 Read and write numerals from 0-10.
- 1.4 Group objects in groups of ten.
- 1.5 Count 0-100.
- 1.6 Use one-to-one correspondence to count and compare sets of objects.
- 1.7 Describe a relationship between two sets of quantities with more, less, or equal numbers.
- 1.8 Add and subtract one digit numbers with manipulatives or marks.

State Standard 2

Students use algebraic methods to explore, model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Classroom objectives

The student will:

- 2.1 Recognize, construct, and extend patterns in a variety of colors, designs, rhyme, sizes, or quantities.
- 2.2 Sort, classify, describe, and order collections of objects in a variety of ways.
- 2.3 Recognize when a pattern exists, describe and reproduce the pattern.

State Standard 3

Students use data collection and analysis, statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems.

Classroom objectives

The student will:

- 3.1 Read and display simple picture and real object graphs.
- 3.2 Gather data by counting and tallying.
- 3.3 Use “more”, “fewer”, and “same” to describe sets.

State Standard 4

Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Classroom objectives

The student will:

- 4.1 Recognize congruent shapes using manipulatives.
- 4.2 Recognize circles, triangles, squares, rectangles, and diamonds.
- 4.3 Measure lengths using nonstandard units of measurement.
- 4.4 Use geometric shapes to create.

State Standard 5

Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

Classroom objectives

The students will:

- 5.1 Use non-standard units of measure.

5.2 Compare objects by measurable attributes.

5.3 Order objects by measurable attributes.

Standard 6

Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers in problem-solving situations and communicate the reasoning used in solving these problems.

Classroom objectives

The student will:

6.1 Add and subtract whole numbers.

6.2 Show groups of ten.