



Mathematics Outcomes: Grade 3

1. Students will use appropriate problem solving strategies.

Students will

- Have varied daily opportunities for problem solving;
- Independently develop and choose appropriate problem solving techniques;
- Focusing on the "action" in the problem in order to choose correct mathematical operations;
- Determine the reasonableness of results.

2. Students will understand and apply the four fundamental operations in developmentally appropriate ways.

Students will

- Practice the concepts and language of the four operations;
- Learn basic fact strategies and work toward immediate recall;
- Complete computation to the appropriate level for each operation;
- Add 4-digits with and without regrouping;
- Multiply 2-digits by 1-digit;
- Divide with remainders;
- Solve word problems by looking for the action words;
- Estimate using rounding and other appropriate strategies;
- Use mental math strategies.

3. Students will utilize and interpret graphing techniques.

Students will

- Interpret a variety of graphs from real life events;
- Collect, analyze and represent data with appropriate graphs.

4. Students will understand basic geometric concepts.

Students will

- Recognize, identify, analyze and find real world applications for three dimensional shapes;
- Explore two dimensional shapes (polygons), angles, lines, line segments;
- Understand relationships among polygons;
- Explore symmetry;
- Identify congruent shapes.

5. Students will demonstrate knowledge of various types of measurement.

Students will

- Measure length, capacity and weight with non-standard and standard units using both customary and metric systems;
- Develop concepts of area and measure with square units;
- Develop concepts of perimeter and measure perimeter of simple shapes;
- Read and represent time to the minute (analogue and digital);
- Count money and apply money concepts.

6. Students will demonstrate an understanding of number sense and numeration.

Students will

- Model numbers to four digits with manipulatives and/or pictures;
- Read and write numbers to the hundred-thousands place;



- Identify place value of digits in six-digit numbers;
- Compare and order numbers to the hundred thousands place;
- Round numbers to the nearest ten, hundred or dollar;
- Give many names for the same number;
- Skip count patterns (2's, 5's, 10's, 100's, 3's, 4's);
- Develop concepts of even and odd numbers;
- Develop concepts of ordinal numbers.