



Mathematics Outcomes: Grade 1

1. Students will use appropriate problem solving strategies.

Students will

- choose between addition and subtraction to solve a problem;
- use methods such as "doubles plus one" and "counting back."

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

Students will

- add sums up to 18;
- subtract from sums up to 18.

3. Students will utilize and interpret graphing techniques.

Students will

- make and interpret real, picture and bar graphs of every day objects and events.
- answer questions, make predictions, and analyze data.

4. Students will understand basic geometric concepts.

Students will

- recognize and name plane and solid shapes (i.e., square and cube, circle and sphere, triangle and cone, rectangle and box cylinder).
- construct and compare plane and solid shapes.

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

Students will

- Measure time on the hour and half hour;
- Measure length in inches and centimeters;
- Measure capacity of cups, pints and quarts;
- Identify fractions of $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{3}{4}$;
- Read and interpret temperatures and thermometers.

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

Students will

- Count and write to 100 by 1's, 5's, 10's;
- Compare numbers;
- Determine what number comes before, after, between;
- Identify numbers to 100 as groups of tens and ones;
- Recognize and build patterns with manipulatives and numbers;
- Begin to estimate and check;
- Apply counting patterns to count coins to 99 cents;
- Predict and interpret probability;
- List probable outcomes of 1-stage experiments (e.g., flipping a coin or rolling a die).