



St. Mel's Catholic School

MATHEMATICS STANDARDS

Grade One

Number Sense

1.0 Number Relationships

- 1.1 Count, read, and write whole numbers to 100.
- 1.2 Compare and order whole numbers to 100 by using the symbols for “less than”, “equal to”, or “greater than” ($<$, $=$, $>$).
- 1.3 Represent equivalent forms of the same number to 20, using physical models, diagrams, and number expressions (e.g., 8 may be represented as $4 + 4$, $5 + 3$, $2 + 2 + 2 + 2$, $10 - 2$, $11 - 3$).
- 1.4 Count and group objects into ones and tens (e.g., three groups of 10 and 4 equals 34, or $30 + 4$).
- 1.5 Identify and know the value of coins then show different combinations of coins equaling the same value.

2.0 Addition and Subtraction

- 2.1 Know and memorize the addition facts (sums to 20) and the corresponding subtraction facts.
- 2.2 Use the inverse relationship (e.g., checking a subtraction problem using addition).
- 2.3 Identify one more than, one less than, 10 more than, and 10 less than a given number.
- 2.4 Count by 2s, 5s, and 10s to 100.
- 2.5 Show the meaning of addition (putting together) and subtraction (taking away, compare, find the difference).
- 2.6 Solve addition and subtraction problems with one- and two-digit numbers (e.g., $5 + 58 = \underline{\quad}$).
- 2.7 Find the sum of three one-digit numbers.

3.0 Estimation

- 3.1 Make reasonable estimates when comparing larger or smaller numbers.

Algebra and Functions

1.0 Number Sentences

- 1.1 Write and solve number sentences from problem situations that express relationships involving addition and subtraction.
- 1.2 Understand the meaning of the symbols for addition, subtraction, and equal to ($+$, $-$, $=$).
- 1.3 Create problem situations that might lead to a given number sentence involving addition and subtraction.

Measurement and Geometry

1.0 Measurement



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1.1 Compare the length, width, and volume of two or more objects by using standard or nonstandard units.

1.2 Tell time to the nearest half hour and relate time to events (e.g., before/after, shorter/longer).

2.0 Geometry

2.1 Identify, describe, and compare triangles, rectangles, squares, and circles, including the faces of three-dimensional objects.

2.2 Classify familiar plane and solid objects by common attributes, such as color, position, shape, size, roundness, or number of corners, and explain which attributes are being used for classification.

2.3 Give and follow directions about location.

2.4 Arrange and describe objects in space by proximity, position, and direction (e.g., near, far, below, above, up, down, behind, in front of, next to, left or right of).

Statistics, Data Analysis, and Probability

1.0 Data

1.1 Sort objects and data by common attributes and describe the categories.

1.2 Represent and compare data (e.g., largest, smallest, most often, least often) by using pictures, bar graphs, tally charts, and picture graphs.

2.0 Patterning

2.1 Describe, extend, and explain ways to get to the next element in simple repeating patterns (e.g., rhythmic, numeric, color, shape).

Mathematical Reasoning

1.0 Making Decisions about a Problem

1.1 Determine the approach, materials, and strategies to be used.

1.2 Use tools, such as manipulatives or sketches, to model problems.

2.0 Solve Problems & Justify Reasoning

2.1 Explain reasoning used and justify the procedures selected.

2.2 Make precise calculations and check the validity of the results from the context of a problem.

3.0 Make Connections

3.1 Note the connection between one problem and another