

NUMBER

General Outcome

Develop number sense.

- 3.N.1. Say the number sequence between any two given numbers forward and backward
- from 0 to 1000 by
 - 10s or 100s, using any starting point
 - 5s, using starting points that are multiples of 5
 - 25s, using starting points that are multiples of 25
 - from 0 to 100 by
 - 3s, using starting points that are multiples of 3
 - 4s, using starting points that are multiples of 4
- [C, CN, ME]
- 3.N.2. Represent and describe numbers to 1000, concretely, pictorially, and symbolically.
 [C, CN, V]
- 3.N.3. Compare and order numbers to 1000.
 [CN, R, V]
- 3.N.4. Estimate quantities less than 1000 using referents.
 [ME, PS, R, V]
- 3.N.5. Illustrate, concretely and pictorially, the meaning of place value for numerals to 1000.
 [C, CN, R, V]
- 3.N.6. Describe and apply mental mathematics strategies for adding two 2-digit numerals, such as
- adding from left to right
 - taking one addend to the nearest multiple of ten and then compensating
 - using doubles
- [C, ME, PS, R, V]
- 3.N.7. Describe and apply mental mathematics strategies for subtracting two 2-digit numerals, such as
- taking the subtrahend to the nearest multiple of ten and then compensating
 - thinking of addition
 - using doubles
- [C, ME, PS, R, V]

- 3.N.8. Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem-solving context.
 [C, ME, PS, R]
- 3.N.9. Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1-, 2-, and 3-digit numerals) by
- using personal strategies for adding and subtracting with and without the support of manipulatives
 - creating and solving problems in contexts that involve addition and subtraction of numbers concretely, pictorially, and symbolically.
- [C, CN, ME, PS, R]
- 3.N.10. Apply mental math strategies to determine addition facts and related subtraction facts to 18 ($9 + 9$)
 [C, CN, ME, R, V]
- Recall of addition and related subtraction facts to 18 is expected by the end of Grade 3.
- 3.N.11. Demonstrate an understanding of multiplication to 5×5 by
- representing and explaining multiplication using equal grouping and arrays
 - creating and solving problems in context that involve multiplication
 - modelling multiplication using concrete and visual representations, and recording the process symbolically
 - relating multiplication to repeated addition
 - relating multiplication to division
- [C, CN, PS, R]

- 3.N.12. Demonstrate an understanding of division by
- representing and explaining division using equal sharing and equal grouping
 - creating and solving problems in context that involve equal sharing and equal grouping
 - modelling equal sharing and equal grouping using concrete and visual representations, and recording the process symbolically
 - relating division to repeated subtraction
 - relating division to multiplication (limited to division related to multiplication facts up to 5×5).
- [C, CN, PS, R]
- 3.N.13. Demonstrate an understanding of fractions by
- explaining that a fraction represents a portion of a whole divided into equal parts
 - describing situations in which fractions are used
 - comparing fractions of the same whole with like denominators
- [C, CN, ME, R, V]

PATTERNS AND RELATIONS

General Outcome

Use patterns to describe the world and solve problems.

- 3.PR.1. Demonstrate an understanding of increasing patterns by
- describing
 - extending
 - comparing
 - creating patterns using manipulatives, diagrams, and numbers (to 1000).
- [C, CN, PS, R, V]
- 3.PR.2. Demonstrate an understanding of decreasing patterns by
- describing
 - extending
 - comparing
 - creating patterns using manipulatives, diagrams, and numbers (starting from 1000 or less).
- [C, CN, PS, R, V]

General Outcome

Represent algebraic expressions in multiple ways.

- 3.PR.3. Solve one-step addition and subtraction equations involving symbols representing an unknown number.
 [C, CN, PS, R, V]

SHAPE AND SPACE

General Outcome

Use direct or indirect measurement to solve problems.

- 3.SS.1. Relate the passage of time to common activities using non-standard and standard units (minutes, hours, days, weeks, months, years).
 [CN, ME, R]
- 3.SS.2. Relate the number of seconds to a minute, the number of minutes to an hour, and the number of days to a month in a problem-solving context.
 [C, CN, PS, R, V]
- 3.SS.3. Demonstrate an understanding of measuring length (cm, m), by
- selecting and justifying referents for the units cm and m
 - modelling and describing the relationship between the units cm and m
 - estimating length using referents
 - measuring and recording length, width and height
- [C, CN, ME, PS, R, V]
- 3.SS.4. Demonstrate an understanding of measuring mass (g, kg) by
- selecting and justifying referents for the units g and kg
 - modelling and describing the relationship between the units g and kg
 - estimating mass using referents
 - measuring and recording mass
- [C, CN, ME, PS, R, V]

- 3.SS.5. Demonstrate an understanding of perimeter of regular and irregular shapes by
- estimating perimeter using referents for centimetre or metre
 - measuring and recording perimeter (cm, m)
 - constructing different shapes for a given perimeter (cm, m) to demonstrate that many shapes are possible for a perimeter
- [C, ME, PS, R, V]

General Outcome

Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.

- 3.SS.6. Describe 3-D objects according to the shape of the faces and the number of edges and vertices.
 [C, CN, PS, R, V]
- 3.SS.7. Sort regular and irregular polygons including
- triangles
 - quadrilaterals
 - pentagons
 - hexagons
 - octagons
- according to the number of sides.
 [C, CN, R, V]

STATISTICS AND PROBABILITY

General Outcome

Collect, display, and analyze data to solve problems.

- 3.SP.1. Collect first-hand data and organize it using
- tally marks
 - line plots
 - charts
 - lists;
- to answer questions.
 [C, CN, V]
- 3.SP.2. Construct, label, and interpret bar graphs to solve problems.
 [PS, R, V]