







|  | Big Idea, Major Concepts, GLOs | Specific Learning Outcomes <small>ELOs are bold [NICE TO KNOW are italics]</small> | Season | Nehiyaw Ways of Knowing |
|--|---------------------------------------|--|---------------|--------------------------------|
|--|---------------------------------------|--|---------------|--------------------------------|

NUMBER SENSE

VOCABULARY

Addend **Approximate** **Array** **Commutative property** **Count** **Denominator** **Division** **Equal groups** **Facts** **Fraction** **Making 10** **Mental math**
Multiplication **Number line** **Number Sense** **Number sequence** **Numeral** **Numerator** **Odd** **Part of a whole** **Personal strategy**
Place value **Product** **Property of zero** **Proportional** **Quantity** **Refine** **Sharing** **Skip count**

| | | | |
|--|---|---|--|
| | <p>1. Say the number sequence 0 to 1000 forward and backward by:</p> <ul style="list-style-type: none"> • 5s, 10s or 100s, using any starting point • 3s, using starting points that are multiples of 3 • 4s, using starting points that are multiples of 4 • 25s, using starting points that are multiples of 25. |  | |
| | <p>2. Represent and describe numbers to 1000, concretely, pictorially and symbolically.</p> | | <ul style="list-style-type: none"> • Cree language for numbers, Landbased manipulatives where possible (berries, rocks) |
| | <p>3. Compare and order numbers to 1000.</p> | | |
| | <p>4. Estimate quantities less than 1000, using referents.</p> | | |
| | <p>5. Illustrate, concretely and pictorially, the meaning of place value for numerals to 1000.</p> |  | <ul style="list-style-type: none"> • Cree language for numbers, Landbased manipulatives where possible (berries, rocks) |
| | <p>6. Describe and apply mental mathematics strategies for adding two 2-digit numerals.</p> |  | |
| | <p>7. Describe and apply mental mathematics strategies for subtracting two 2-digit numerals.</p> | | |
| | <p>8. Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem-solving context.</p> |  | <ul style="list-style-type: none"> • Cree language for numbers, Landbased manipulatives where possible (berries, rocks) |
| | <p>9. Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1-, 2- and 3-digit numerals), concretely, pictorially and symbolically, by:</p> <ul style="list-style-type: none"> • using personal strategies for adding and subtracting with and without the support of manipulatives • creating and solving problems in context that involve addition and subtraction of numbers. |  | |


Big Idea, Major Concepts, GLOs
Specific Learning Outcomes
 ELOs are bold [NICE TO KNOW are italics]

Season
Nehiyaw Ways of Knowing

10. Apply mental mathematics strategies and number properties in order to understand and recall basic addition facts and related subtraction facts to 18.

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.

12. **Demonstrate an understanding of division (limited to division related to multiplication facts up to 5×5) 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.

13. **Demonstrate an understanding of fractions by:**

- explaining that a fraction represents a part of a whole
- describing situations in which fractions are used
- comparing fractions of the same whole that have like denominators.





- **Cree language for numbers, Landbased manipulatives where possibles (berries, rocks), Perseverance, Observation**

- **Cree language, Landbased, Observation, Perseverance, Land Based Learning Activities (outdoor experiences), Traditional Cooking**

|  Big Idea, Major Concepts, GLOs | Specific Learning Outcomes ELOs are bold [NICE TO KNOW are italics] | Season | Nehiyaw Ways of Knowing |
|---|--|---|--|
| PATTERNS AND RELATIONS | | | |
| VOCABULARY Algebraic expression Element Equation Expression Extend Increasing pattern Non-numerical pattern Numerical pattern Pictorial Pattern Pattern rule Symbol Variable Venn diagram | | | |
| | <p>1. Demonstrate an understanding of increasing patterns by:</p> <ul style="list-style-type: none"> describing extending comparing creating <p>numerical (numbers to 1000) and non-numerical patterns using manipulatives, diagrams, sounds and actions.</p> <hr/> <p>2. Demonstrate an understanding of decreasing patterns by:</p> <ul style="list-style-type: none"> describing extending comparing creating <p>numerical (numbers to 1000) and non-numerical patterns using manipulatives, diagrams, sounds and actions.</p> <hr/> <p>3. Sort objects or numbers, using one or more than one attribute.</p> <hr/> <p>4. Solve one-step addition and subtraction equations involving a symbol to represent an unknown number.</p> |  | <ul style="list-style-type: none"> Observation, Wisdom, Creativity |
| SHAPE AND SPACE | | | |
| VOCABULARY Calendar Centimetre Cone Cube Cylinder Days Dimension Direct measurement Edge Faces Gram (g) Height Hexagon Hour Indirect measurement Irregular polygon Irregular shape Kilogram Line segment Mass Meter Minute Month Non-standard measurement 3D object Octagon Orientation Pentagon Perimeter Pyramid Quadrilateral Regular polygon Regular shape Second Segment 2D shape Skeleton Sphere Triangle Vertex Weeks | | | |
| MEASUREMENT | <p>1. Relate the passage of time to common activities, using nonstandard and standard units (minutes, hours, days, weeks, months, years).</p> |  | <ul style="list-style-type: none"> Creativity, Moon Calendar (measurement), Seasons (6), Traditional Stories, Elders Stories |



| | | | |
|-----------------------------------|--|--|--|
| | <p>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.</p> | | <ul style="list-style-type: none"> Creativity, Moon Calendar (measurement), Seasons (6), Traditional Stories, Elders Stories |
| | <p>3. Demonstrate an understanding of measuring length (cm, m) by:</p> <ul style="list-style-type: none"> 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. | | <ul style="list-style-type: none"> Land based learning (collecting items, nature walks, building shelters), Cooking, Sewing |
| | <p>4. Demonstrate an understanding of measuring mass (g, kg) by:</p> <ul style="list-style-type: none"> 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. | | |
| | <p>5. Demonstrate an understanding of perimeter of regular and irregular shapes by:</p> <ul style="list-style-type: none"> estimating perimeter, using referents for cm or m 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. | | <ul style="list-style-type: none"> Observation, Creativity, Land Based (Outdoor Activities), Beading |
| 3-D OBJECTS AND 2-D SHAPES | <p>6. Describe 3-D objects according to the shape of the faces and the number of edges and vertices.</p> | | <ul style="list-style-type: none"> Observation, Creativity, Land Based (Outdoor Activities), Beading |
| | <p>7. Sort regular and irregular polygons, including:</p> <ul style="list-style-type: none"> triangles quadrilaterals pentagons hexagons octagons <p>according to the number of sides.</p> | | |

|  Big Idea, Major Concepts, GLOs | Specific Learning Outcomes ELOs are bold [NICE TO KNOW are italics] | Season | Nehiyaw Ways of Knowing |
|--|---|---|--|
| STATISTICS AND PROBABILITY | | | |
| VOCABULARY Axes Bar Graph Collect Data First hand data Linear equation List | | | |
| DATA ANALYSIS | 1. Collect first-hand data and organize it using: <ul style="list-style-type: none"> • tally marks • line plots • charts • lists to answer questions. |  | <ul style="list-style-type: none"> • Observation, Creativity, Land Based (Outdoor Activities), Beading |
| | <i>2. Construct, label and interpret bar graphs to solve problems.</i> | | <ul style="list-style-type: none"> • Creativity, Responsibility, Observation, Perseverance |



Vocabulary found in multiple strands

| English | Nehiyawewin | English | Nehiyawewin | English | Nehiyawewin |
|---------------|-------------|------------------------------|-------------|---------------|-------------|
| addition | akihta | horizontal | | repeating | |
| analyze | | hundred chart | | represent | |
| apply | apachita | identify | | set | |
| attribute | | illustrate | | solve | |
| classify | | increasing | | sort | tantowa |
| compare | | interpret | | sorting rule | |
| concrete | osihta | justify | | standard | |
| create | | label | | subtraction | |
| decreasing | mamiskota | length | | sum | mamawi-asta |
| demonstrate | | less | | symbolic | |
| describe | | mass | | tally marks | |
| develop | | match | | vertical | |
| diagonal | | measure/measurement | | whole | |
| diagram | | model | | whole numbers | |
| difference | | more than | | year | |
| digit | | multiple | | | |
| equal sharing | | number | | | |
| equation | | one to one correspondence | | | |
| equivalent | | order | | | |
| estimate | | relate | | | |
| even | | record | masinaha | | |
| explain | | referent | | | |
| grouping | | relationship | | | |