**Numeracy**

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| **Adding and Subtracting** | **Multiplying** | **Dividing** | **Understanding Numbers** | **Fractions, Decimals, Percent, Ratios** | **Exponents** |
| * N.1.9 I can demonstrate an understanding of addition of numbers with answers to 20 and corresponding subtraction facts
* N.1.10 I can use and explain mental math strategies to add and subtract to 18 (counting on, making 10, doubles, related facts)
* N.2.2 I can show that I understand how to add and subtract 1 and 2 digit numbers up to 100
* N.3.2 I can add and subtract to 1000
* N.4.2 I can add and subtract to 10,000
* N4.8 I can add and subtract decimals to the tenths and hundredths
* N.5.4 I can use estimation when adding and subtracting
* N.5.7 I can add and subtract decimals
 | * N.3.3 I can multiply numbers up to 5 by 5
* N.4.3 I can multiply up to 10 by 10
* N.4.4 I can multiply 2 and 3 digit numbers by a 1 digit number
* N.5.2 I can multiply Whole Numbers
 | * N.3.3 I can divide numbers up to 5 by 5
* N.4.5 I can divide 2 digit numbers by a 1 digit number
* N.5.3 I can divide 3 digit numbers by a 1 digit number with remainders
 | * N.1.1 I can say the number sequence, 0 to 100
* N.1.2 I can reorganize familiar arrangements of 1 to 10
* N.1.3 I can count objects in different ways and see that it is the same amount
* N.1.4 I can show whole numbers to 20 with objects, pictures and symbols
* N.1.5 I can compare sets containing up to 20 concretely, pictorially, and symbolically
* N.1.6 I can estimate the number of objects up to 20 by comparing to a given set
* N.1.7 I can show whole numbers as a variety of groupings with objects and pictures with and without singles
* N.1.8 I can name the number up to 20 that is 1 or 2 more or less than a given number
* N.2.1 I can show that I understand numbers to 100
* N.3.1 I understand the numbers up to 1000 and can show in different ways
* N.4.1 I understand the numbers up to 10,000 and can show in different ways
* N.5.1 I understand the numbers up to one million and can show in different ways
* N.5.4 I can estimate numbers in a variety of ways
* N.6.1 I understand place value over 1 million and less than one thousandth
* N.6.6 I can order and compare integers in different ways
* N6.9 Research and present how First Nations and Métis peoples, past and present, envision, represent, and use quantity in their lifestyles and worldviews
 | * N.3.4 I can show equal parts of a whole
* N.4.6 I can show fractions that are less than or equal to one
* N.4.7 I can relate fractions to decimals in tenths and hundredth
* N.5.5 I can show an compare equal fractions in different ways
* N.5.6 I can order decimals and I can relate fractions to decimals.
* N.6.5 I can relate fractions and decimals to percent
* N.6.7 I understand Mixed Fractions and Improper Fractions
* N.6.8 I understand Ratios
* N.7.3 I can relate fractions to decimals and Whole Numbers to each other
* N.7.4 I can show fractions for percent between 1-100
* N.8.2 I understand percent greater than 100.
* N.8.3 I understand Ratios and Rates
 | * N.8.1 I understand Square Roots
* N.9.1 I understand Powers
* N.9.3 I understand Square roots of positive Rational Numbers.
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| * N.6.2 I can write the factors and multiples of Whole Numbers (4)
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| * N.6.3 I can properly use the Order of Operations (without exponents) on expressions with Whole (6)Numbers
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|  | * N.6.4 I can multiply by a Whole Number and divide decimals by a Natural Number (4)
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| * N.7.2 I can add, subtract, multiply and divide decimals.(6)
 | * N.7.1 I know and can use the divisibility rules for 2, 3, 4, 5, 8, 9 and 10
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| * N.7.5 I can add and subtract Fractions and Mixed Numbers
 | * N.8.4 I can multiply and divide

 positive Fractions and Mixed Numbers (4) |
| * N.7.6 I can add and subtract Integers
 | * N.8.5 I can multiply and divide Integers
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| * N.9.2 I can order and use operations with positive and negative Rational Numbers, and I can show it in a variety of ways
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**Patterns and Relations**

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| **Understanding and Working with patterns** | **Algebra** |
| * P.1.1 I can create (make), identify (find) and describe (explain) a repeating pattern of two to four elements
* P.1.2 I can show the same pattern using different objects or letters
* P.1.3 I can use a balance scale or draw a picture to show that 2 objects are equal or unequal
* P.1.4 I can write, draw, and give examples of things or numbers that are equal
* P.2.1 I can show that I understand repeating patterns
* P.2.2 I can show that I understand increasing patterns
* P.2.3. I can show that I understand equal and not equal
* P.3.1 I can demonstrate understanding of increasing and decreasing patterns (observing and describing, extending, comparing, creating patterns using manipulatives, pictures, sounds, and actions)
* P.4.1 I can understand patterns and relations (identifying, reproducing, creating and solving in chart, table or diagram)
* P.5.1 I can describe, extend and use patterns
* P.6.1 I can show understanding of patterns in tables and graphs
 | * P.3.2 I can solve one step addition and subtraction problems
* P.4.2 I can understand equations using symbols
* P.5.2 I can use a variable to solve and check one step equations
* P.6.2 I can show and understand equality in numbers
* P.7.2 I can understand algebraic equations and expressions
* P.7.3 I can solve algebraic equations using whole numbers
* P.7.4 I can solve algebraic equations using integers
* P.8.1 I can understand equations using graphs and tables of values
* P.8.2 I can model and solve linear equations using integers
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| * P.6.3 I can relate patterns and relationship s to form expressions and equations
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| * P.7.1 I can understand and graph input and output machines
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| * P.9.1 I can use graphs and charts to express solutions to problems and predict values outside of the graph. (interpolating and extrapolating)
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|  | * P.9.2 I can model and solve equations in a variety of ways
* P.9.3 I can solve single variable linear inequalities, including rational coefficients
* P.9.4 I can understand polynomials with degree less than or equal to 2
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**Statistics and Probability**

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| **Data** | **Graphing** | Probability |
| * SP.3.1 I can understand data from first hand tools
* SP.4.1 I can understand many to one correspondence
* SP.5.1 I can differentiate between first hand and second hand
 | * SP.2.1 I can show that I understand graphs
* SP.5.2 I can make and interpret double bar graphs
 | * SP5.3 I can describe, compare, predict and test the chance or probability of something happening
* SP6.2 I understand probability (sample space, theory, experimental)
* SP9.3 I can show where and why probability should and shouldn’t be used
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| * SP.6.1 I can understand data from graphs and creating graphs from data
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| * SP.7.1 I can understand and find the Mean, Median, Mode and Range
 | * SP.7.2 I can understand circle graphs
 | * SP.7.3 I can understand probability for two independent events (Sample space less than 36)
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| * SP.9.1 I can understand the effect of various ways of improperly collecting data
 | * SP.8.1 I can interpret graphs (Advantages/disadvantages and misleading information)
 | * SP.8.2 I can understand Probability of Independent events
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| * SP.9.2 I can display and interpret data gathered from a project
 | * SP.9.4 Research and present how First Nations and Métis peoples, past and present, envision, represent, and make use of probability and statistics.
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**Shapes and Space**

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| **Time and Date** | **Shapes** |
| * SS.3.1 I can understand the basic units of time (Hours and Minutes)
 | * SS.1.2 I can sort 3-D objects and 2-D shapes using one attribute, and explain the sorting rule.
* SS.1.3 I can build 2-D shapes and 3-D objects
* SS.1.4 I can compare 2-D shapes to parts of 3-D objects in the environment
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| * SS.4.1 I can understand the difference between AM and PM and can read analog and digital clocks.
 | * SS.2.3 I can show that I understand 3-D objects
* SS.2.4 I can show that I understand 2-D shapes
* SS.2.5 I can show that I understand the relationship between 2-D shapes and 3-D objects
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| **Measurement** | * SS.3.4 I can show understanding of 3D objects using **edges**, **faces** and **vertices**
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| * SS.1.1 I can demonstrate an understanding of measurement (length, height, mass, volume, capacity, area)
 | * SS.3.5 I understand 2D shapes both **regular** and **irregular** (**Triangles, quadrilaterals, pentagons, hexagons** and **octagons**)
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| * SS.2.1 I can demonstrate an understanding of non-standard units for linear measurement
* SS.2.2 I can demonstrate an understanding of non-standard units for measurement for mass
 | * SS.4.2 I can show and understand the area of regular and irregular 2D shapes
* SS.4.3 I can demonstrate an understanding of rectangular and triangular prisms
* SS.4.4 I can understand the line of **symmetry**
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| * SS.3.2 I understand the relationship between **grams** and **kilograms**
* SS.3.3 I understand measurement in **centimeters** and **meters**
 | * SS.5.1 I can create different rectangles either **perimeter**, **area** or both and make conclusions.
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| * SS.5.2 I can measure length in **millimeters**. Comparing millimeters, centimeters and meters.
 | * SS.5.5 I can relate **2D** and **3D shapes** and their characteristics (**parallel, intersecting, perpendicular, vertical** and **horizontal**)
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| * SS.5.3 I can understand volume using **cm3** and **m3**.
 | * SS.5.6 I can sort **quadrilaterals** (**rectangles, squares, trapezoids, parallelograms, rhombuses**)
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| * SS.5.4 I can measure capacity in **milliliters** and **liters**
 | * SS.5.7 I can perform single **Transformations** of 2D shapes
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| **Cartesian plane** | * SS.6.1 I can measure and identify/classify/draw **angles** in triangles and quadrilaterals
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| * SS.6.4 I can understand 1st quadrant of the **Cartesian Plane** with Whole Number ordered pairs.
 | * SS.6.2 I can find perimeter of polygons, area for rectangles and **volume** for right rectangular prisms
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| * SS.7.4 I can understand the Cartesian Plane and ordered pairs with Integral Coordinates
 | * SS.6.3 I can understand and compare regular and irregular polygons and classify triangles.
* SS.6.5 I can identify, describe and perform single and combinations of transformations of 2D shapes
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| * SS.7.1 I understand **circles** and **circumference** and **central angles**.
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| * SS.7.2 I can use formulas to determine areas of triangles, parallelograms and circles
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| * SS.7.3 I understand the relationship between **lines** and angles
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| * SS.7.5 I understand transformations of 2D shapes in 4 quadrants of the Cartesian Plane
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| * SS.8.1 I understand **Pythagoras Theorem**
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| * SS.8.2 I can relate **Geometric Nets** and **Surface Area** of 3D objects
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| * SS.8.3 I can use formulas for volume for right prisms and right **cylinders**
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| * SS.8.4 I can **tessellate** objects and explain how.
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| * SS.9.1 I have understanding of Circle Properties of **chords, diameters, inscribed angles, perpendicular bisectors, tangents**
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| * SS.9.2 I have understanding of Area and Surface Area of right triangular prisms, right rectangular prisms and right cylinders, to composite 3D objects.
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| * SS.9.3 I have understanding of **line and rotational symmetry**
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| * SS.9.4 I can research and present ways First Nations and Métis people used statistics and probability
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