OUTCOMES			ASSESSMENT RUBRICS				
	N9.1 Demonstrate (concretely, pictorially, and symbolically) understanding of powers with integral bases (excluding base 0) and whole number exponents including: representing using power; evaluating powers; powers with an exponent of zero; solving situational questions						
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.			
Outcome N9.1A: Students will be able to demonstrate understanding of powers with integral bases (excluding 0) and whole number exponents.	I need more help with becoming consistent with the criteria.	I can label the base, exponent and power. I can evaluate powers with positive bases with or without technology.	I can show repeated multiplication of a power. I can write as a power of 10. I can evaluate powers (including those with an exponent of 0) with or without technology. I can predict whether the value of a given power will be positive or negative without evaluating. I can determine which of two powers is greater. I can write a number as a power with a given base.	I can analyze the role of brackets in powers. I can explain the difference between the exponent and the base of a power. I can justify why a power with exponent zero is 1. I can explain my strategies for evaluating.			
Outcome N9.1B: Students will understand and apply the exponent laws	I need more help with becoming consistent with the criteria.	I can write an expression as a single power that involves one step	I can write an expression as a single power that involves multiple laws.	I can apply the order of operations to expressions involving powers. I can explain my strategy. I can perform error analysis. I can show why laws do not apply to sums or differences of powers with the same base.			

OUTCOMES	ASSESSMENT RUBRICS					
N9.2 Demonstrate une	derstanding of rat		cluding: comparing and ordering; r	elating to other types of numbers;		
	solving situational questions					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.		
		learning goals for this outcome.				
Outcome N9.2A: Students will demonstrate an understanding of how to order rational numbers	I need more help with becoming consistent with the criteria.	I can consistently order and compare rational numbers in decimal form	I can consistently order and compare rational numbers in any form. I can consistently determine a rational number between a pair of rational numbers. I can consistently determine equivalent rational numbers. I can consistently place rational numbers on a number line.	I am able to determine the difference between a rational and irrational number and explain my choice. I am able to explain why a group of rational numbers are in order. I am able to explain why a number is between a pair of rational numbers.		
Outcome N9.2B Students will demonstrate an understanding of how to add and subtract rational numbers including those in situational questions	I need more help with becoming consistent with the criteria	I can consistently add and subtract rational numbers.	I can consistently determine which operation to use in a situational problem that involves addition or subtraction.	I can solve situational questions that involve addition or subtraction of rational numbers. I can interpret my answer to a situational problem. I can perform error analysis. I can explain my strategy for adding or subtracting rational numbers.		

Outcome N9.2C Students will demonstrate an understanding of how to multiply and divide rational numbers including those in	I need more help with becoming consistent with the criteria	I can consistently multiply and divide rational numbers.	I can consistently solve situational questions that involved multiplication or division of rational numbers.	I can interpret my answer to a situational problem. I can perform error analysis. I can explain my strategy for multiplying or dividing rational numbers.
situational questions. Outcome N9.2D Students will demonstrate an understanding of how to apply the order of operations to rational numbers including those in situational questions.	I need more help with becoming consistent with the criteria	I can consistently choose and explain the operation that needs to be done first.	I can consistently apply order of operations with rational numbers.	I am able to solve situational questions that involve applying order of operations with rational numbers. I am able to perform error analysis. I am able to explain my strategy for solving with order of operations.

OUTCOMES		ASSESSMENT RUBRICS				
N9.3	N9.3 Extend understanding of square roots to include the square root of positive rational numbers.					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	Approaching Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.		
Outcome N9.3: Students will demonstrate understanding of square roots.	I need more help with becoming consistent with the criteria.	I can consistently evaluate square roots of positive rational numbers.	I can consistently: *determine if a rational number is a perfect or non-perfect square root *solve for the missing side in a right triangle using the Pythagorean theorem *demonstrate the relationship between the area and side length of a square *determine the rational number for which a given rational number is its square root * determine a rational number whose square root would be between two given rational numbers	I can solve situational questions. I can determine an estimate of the square root of a non-perfect square. I can perform error analysis. I can explain why a rational number is a perfect or non-perfect square.		

\*\*These were previously 1-1 and 1-2

OUTCOMES		ASS	SESSMENT RUBRICS			
P9.1 Demonstrate	P9.1 Demonstrate understanding of linear relations including graphing, analyzing, interpolating and extrapolating, solving situational questions					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.		
Outcome P9.1A: Students will be able to analyze, interpolate and extrapolate linear relations including those in situational questions.	I need more help with becoming consistent with the criteria.	I can determine if a graph is linear or non-linear and explain why.	I can consistently interpolate and extrapolate to determine a value from a graph of a linear relation.	I am able to verify an interpolated or extrapolated value from a graph. I am able to show understanding of interpolation and extrapolation.		
Outcome P9.1B Students will be able to graph linear relations	I need more help with becoming consistent with the criteria.	I can consistently graph a linear relation given the table of values.	I can consistently graph a linear relation and determine what type of line it is.	I can explain my work for graphing linear relations. I can graph a situational question and interpret the results. I can explain why a graph is going to be increasing, decreasing, vertical or horizontal.		

OUTCOMES		AS	SESSMENT RUBRICS				
	P9.2 Model and solve situational questions using linear equations of the form $ax = b$ ; $x/a = b$ ; $ax + b = c$ ; $x/a + b = c$ ; $ax = b + c$						
	cx; a(x + b) = c; ax + b = cx + d; a(bx + c) = d(ex + f); a/x = b where a, b, c, d, e, and f are rational numbers.						
Level	<b>Beginning</b>	<u>Approaching</u>	<u>Proficient</u>	<u>Mastery</u>			
	Spend	Good start. You are	You did it and you did it on	Great work! This is going			
	some	beginning to make	your own. You are able to	extra well for you. You have			
Criteria	extra time	sense of this on your	complete the processes for	understood the outcome, are			
	with the	own. You are	this outcome. Your work is	able to explain your			
	criteria	consistent with the	thorough and consistently	strategies and apply these to			
	and ask	basic learning goals	accurate.	situations. Your work is			
	for help.	for this outcome.		always accurate.			
Outcome P9.2A Students	l need	I can solve up to three	I can consistently solve all	I can solve situational			
will be able to solve linear	more help	step equations that do	types of equations with a	questions. I can verify my			
equations with variables on	with	not contain fractions or	variable on one side.	answers. I can explain my			
one side of the equation	becoming	variables in the		steps. My work is accurate. I			
including those involved in	consistent	denominator (other than		can model a linear equation. I			
situational questions.	with the	the basic $x/3 + 2 = 5$		can explain each part of the			
	criteria.	type of fraction)		diagram and how it represents			
				the equation.			
Outcome P9.2B: Students	Ineed	I can solve up to three	I can consistently solve all	I can solve situational			
will be able to solve linear	more help	step equations that do	types of equations with	questions. I can verify my			
equations wit variables on	with	not contain fractions or	variables on both sides.	answers. I can explain my			
both sides of the equation	becoming	variables in the		steps. My work is accurate. I			
including those involved in	consistent	denominator (other than		can model a linear equation. I			
situational questions.	with the	the basic $x/3 + 2 = 5$		can explain each part of the			
	criteria	type of fraction)		diagram and how it represents			
				the equation.			

OUTCOMES	ASSESSMENT RUBRICS				
P9.3 Demonstrate und	P9.3 Demonstrate understanding of single variable linear inequalities with rational coefficients including: solving inequalities; verifying; comparing; graphing				
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	Approaching Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.	
Outcome P9.3: Students will demonstrate an understanding of linear inequalities	I need more help with becoming consistent with the criteria.	I can consistently graph a given inequality	<ul> <li>I can consistently</li> <li>solve a linear inequality</li> <li>write an inequality for a given statement</li> <li>write an inequality given a graph</li> </ul>	I can solve situational questions. I can verify my answer. I can interpret solutions.	

OUTCOMES	ASSESSMENT RUBRICS					
modeling, generali	P9.4 Demonstrate understanding of polynomials (limited to polynomials of degree less than or equal to 2) including: modeling, generalizing strategies for addition, subtraction, multiplication, and division; analyzing; relating to context; comparing for equivalency.					
Level Criteria	<u>Beginning</u> Spend some extra time with the	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with	Proficient You did it and you did it on your own. You are able to complete	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are		
	criteria and ask for help.	the basic learning goals for this outcome.	the processes for this outcome. Your work is thorough and consistently accurate.	able to explain your strategies and apply these to situations. Your work is always accurate.		
Outcome <b>#P9.4A:</b> Students will be able to recognize, write and classify polynomials	I need more help with becoming consistent with the criteria.	<ul> <li>I can consistently:</li> <li>identify monomials, binomials, trinomials</li> <li>identify the variable</li> <li>state the degree</li> <li>state the number of terms</li> <li>state the coefficients</li> <li>state the constant term</li> </ul>	<ul> <li>I can consistently</li> <li>write a monomial, binomial or trinomial</li> <li>compare/write equivalent polynomials</li> </ul>	I can describe relationships between a variable in degree 1 and a variable in degree 2. I can analyze polynomials and discuss the significance of parts of the polynomial.		
Outcome P9.4B Students will be able to add and subtract polynomials	I need more help with becoming consistent with the criteria	I can consistently add polynomials	I can consistently subtract polynomials	I can solve situational questions. I can perform error analysis. I can explain why terms with different variable exponents cannot be added or subtracted.		
Outcome P9.4C Students will be able to multiply and divide polynomials	I need more help with becoming consistent with the criteria	I can multiply a constant by a polynomial. I can divide a polynomial by a constant	I can multiply a monomial by a polynomial. I can divide a polynomial by a monomial.	I can solve situational questions. I can perform error analysis. I can describe relationships between multiplication of a polynomial and a monomial and determining the area of a rectangular region.		

OUTCOMES		ASSESSMENT RUBRICS					
	SS9.1 Demonstrate understanding of circle properties including: perpendicular line segments from the centre of a circle to a chord; inscribed angles subtended by the same arc have the same measure; the measure of a central angle is twice the						
	measure of an inscribed angle subtending the same arc; tangents to a circle are perpendicular to the radius ending at the						
	Decimulation	point of tang		Mastani			
Level	Beginning Spend some	<u>Approaching</u> Good start, You are	<u>Proficient</u> You did it and you did it on	<u>Mastery</u> Great work! This is going			
	extra time	beginning to make sense	your own. You are able to	extra well for you. You			
Criteria	with the	of this on your own. You	complete the processes for	have understood the			
	criteria and ask for help.	are consistent with the	this outcome. Your work is	outcome, are able to explain your strategies			
	ask for help.	basic learning goals for this outcome.	thorough and consistently accurate.	and apply these to			
				situations. Your work is			
				always accurate.			
Outcome SS9.1A Students will	I need more	I can determine the angle	I can consistently find missing	I can justify why a line is			
demonstrate an	help with becoming	measure between a tangent and the radius to the point	angles and sides in a diagram using the tangent radius angle	tangent to a circle is tangent to a circle at a			
understanding of the	consistent with	of tangency.	property.	specific point.			
properties of tangents	the criteria.						
to a circle	1						
Outcome SS9.1B: Students will	I need more help with	I can consistently use the property of a chord to find	I can consistently solve using the property of chords for	I can demonstrate my understanding of chord			
demonstrate an	becoming	the length of one side of the	missing angles and sides in	properties by using these			
understanding of the	consistent with	chord given either the other	inscribed triangles.	to locate the center of a			
properties of chords in	the criteria.	side length of the length of		circle. I can consistently			
a circle		the entire chord.		extend my knowledge of inscribed right triangles to			
				find additional			
				measurements.			
Outcome SS9.1C	I need more	I can consistently identify	I can consistently use the	I can demonstrate and			
Students will	help with	and find the measure of an	property of angles to solve for	explain the relationship			
demonstrate an understanding of the	becoming consistent with	inscribed angle and the central angle that subtend	missing angles and sides.	between inscribed angles and the central angle			
properties of angles in	the criteria.	the same arc given one of		subtended by the same			
a circle		the values.		arc.			

OUTCOMES SS9.2 Extend und	DUTCOMES ASSESSMENT RUBRICS SS9.2 Extend understanding of area to surface area of right rectangular prisms, right cylinders, right triangular prisms, to composite 3D objects					
Level Criterià	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	<u>Proficient</u> You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.		
Outcome SS9.2: Students will determine the surface area of composite 3D objects to solve problems	I need more help with becoming consistent with the criteria.	I can consistently determine the surface area of right rectangular, triangular prisms and cylinders with given measurements.	I can consistently determine the surface area of composite 3C objects.	I can solve situational questions involving the surface area of composite 3D objects. I can demonstrate an understanding of surface area of composite 3D objects.		

OUTCOMES	ASSESSMENT RUBRICS							
	SS9.3 Demonstrate understanding of similarity 2D shapes							
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	Approaching Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.				
Outcome SS9.3: Students will demonstrate understanding of similarity of 2D shapes	I need more help with becoming consistent with the criteria.	I can determine if two shapes are similar. I can draw an enlargement/reduction given a shape and a scale factor.	I can consistently solve for all missing parts of similar 2D shapes. I can determine scale factor. I can draw an enlargement/reduction without a given scale factor. I can explain the difference between similarity and congruence.	I can solve situational questions and demonstrate my understanding involving similarity of 2D shapes.				

OUTCOMES		ASSESSMENT RUBRICS					
	SS9.4 Demonstrate understanding of line and rotation symmetry						
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	<u>Proficient</u> You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.			
Outcome SS9.4 Students will demonstrate an understanding of line and rotation symmetry given a diagram	I need more help with becoming consistent with the criteria.	I can determine if a diagram has line and/or/no rotational symmetry about the center.	I can draw any lines of symmetry and I can state the order of rotation and the angle of rotation about the center of a diagram. I can analyze different transformations and tessellations of 2D shapes to identify any line or rotational symmetry. I can complete a 2-D shape or design given part of a shape or design and one or more lines of symmetry.	I can determine if a picture has line and/or rotational symmetry about a particular point outside the image.			

OUTCOMES	ASSESSMENT RUBRICS				
SP9.1 Demonstrate understanding of the effect of: bias, use of language, ethics, cost, time and timing, privacy, cultural sensitivity, population or sample on data collection					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.	
Outcome SP9.1: Students will demonstrate understanding of the effect of: bias, use of language, ethics, cost, time and timing, privacy, cultural sensitivity, population or sample on data collection	I need more help with becoming consistent with the criteria.	I am able to identify problems with survey questions that have been given to me.	I can discuss the significance of population and sample in situational questions.	I can explain how I considered each part and offer suggestions to improve the validity of the data collection.	

OUTCOMES	ASSESSMENT RUBRICS					
SP9.2 Den	SP9.2 Demonstrate an understanding of the collection, display, and analysis of data through a project					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.		
Outcome SP9.2: Students will demonstrate an understanding of the collection, display and analysis of data through a project	I need more help with becoming consistent with the criteria.	I am able to carry out a collection of data from a survey question. I am able to organize my data and display a visual.	I am able to analyze my data on a superficial level.	I am able to carry out a collection of data from a survey question. I am able to organize my data visually. I am able to analyze my data and make an appropriate conclusion about my results. I can make recommendations due to my analysis. I will be able to assess my project through a rubric I created.		

OUTCOMES	ASSESSMENT RUBRICS				
SP9.3 Demonstrate an understanding of the role of probability in society					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.	
Outcome SP9.3: Students will demonstrate an understanding of the role of probability in society	I need more help with becoming consistent with the criteria.	I am able to identify experimental, theoretical and subjective probability.	I am able to explain why the person based their prediction on experimental probability, theoretical probability or subjective judgment.	I can analyze the meaningfulness of a probability against the limitations of assumptions associated with that probability. I can provide examples of how a single probability could be used to support opposing positions.	

OUTCOMES	ASSESSMENT RUBRICS				
SP9.4 Research and present how First Nations and metis people, past and present envision, represent, and make use of probability and statistics					
Level Criteria	Beginning Spend some extra time with the criteria and ask for help.	<u>Approaching</u> Good start. You are beginning to make sense of this on your own. You are consistent with the basic learning goals for this outcome.	Proficient You did it and you did it on your own. You are able to complete the processes for this outcome. Your work is thorough and consistently accurate.	<u>Mastery</u> Great work! This is going extra well for you. You have understood the outcome, are able to explain your strategies and apply these to situations. Your work is always accurate.	
Outcome SP9.4: Students will demonstrate an understanding of how First Nations and Metis peoples, past and present, envision, represent, and make use of probability and statistics	I need more help with becoming consistent with the criteria.	I know that probability and statistics play a part in First Nations Culture.	I can give an example of probability or statistics in First Nations Culture.	I can describe how probability and statistics play a part in First Nations Culture	