



Mathematics Grade 9 Number (N)				
Outcome	1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
N9.1 I can demonstrate (concretely, pictorially, and symbolically) understanding of powers with integral bases (excluding base 0) and whole number exponents including: <ul style="list-style-type: none"> representing using powers evaluating powers powers with an exponent of zero solving situational questions. 	<ul style="list-style-type: none"> I can label the parts of a power. 	<ul style="list-style-type: none"> I can evaluate powers with integral bases. 	<ul style="list-style-type: none"> I can explain AND apply the exponent laws for multiplication, division and raising a power to a power, AND evaluate the simplification. 	<ul style="list-style-type: none"> I can simplify and solve multiple step problems involving more than one exponent law, and explain my strategy.
	<ul style="list-style-type: none"> With help, I can represent exponents using repeated multiplication, and evaluate. 	<ul style="list-style-type: none"> I can convert between repeated multiplication AND exponential form, and evaluate. 	<ul style="list-style-type: none"> I can evaluate powers with an exponent of 0 	<ul style="list-style-type: none"> I can explain why the value of any power with exponent 0 will equal 1 using exponent laws and repeated multiplication to
	<ul style="list-style-type: none"> With help, I can take steps to evaluate a one-step situational questions involving exponents. 	<ul style="list-style-type: none"> I can take steps to evaluate a one-step situational questions involving exponents. 	<ul style="list-style-type: none"> I can solve multi-step situational questions involving exponents. 	<ul style="list-style-type: none"> I can solve multi-step situational questions involving exponents and explain my strategy.
Comments				



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N9.2 I can demonstrate understanding of rational numbers including: <ul style="list-style-type: none"> comparing and ordering relating to other types of numbers solving situational questions. [C, CN, PS, R, T, V]	<ul style="list-style-type: none"> With help, I can compare AND order a set of rational numbers from the same number system. 	<ul style="list-style-type: none"> I can compare AND order a set of rational numbers from the same number system. 	<ul style="list-style-type: none"> I can compare AND order a set of rational numbers in different forms, including fractions, decimals and integers. 	<ul style="list-style-type: none"> I can compare and order a set of rational numbers and determine a number that fits between two numbers.
	<ul style="list-style-type: none"> With help, I can relate a rational number in one form to a rational number in a different form. 	<ul style="list-style-type: none"> I can relate some rational numbers in different forms. 	<ul style="list-style-type: none"> I can create a representation depicting how different kinds of rational numbers are related to each other. 	<ul style="list-style-type: none"> I can convert rational numbers from one form to another (ex. Convert decimals to fractions.)
	<ul style="list-style-type: none"> With help, I can solve a single-step situational question involving operations with rational numbers 	<ul style="list-style-type: none"> I can solve a single-step situational question involving operations with rational numbers. 	<ul style="list-style-type: none"> I can solve situational questions involving operations with rational numbers. 	<ul style="list-style-type: none"> I can solve multi-step situational questions involving operations with rational numbers and explain my strategy.
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N9.3 Extend understanding of square roots to include the square root of positive rational numbers. [CN, ME, R, T, V]	<ul style="list-style-type: none"> I can determine the square root of a rational number that is a whole number and a perfect square without the use of technology. 	<ul style="list-style-type: none"> I can determine the square root of a rational number that is a perfect square without the use of technology. 	<ul style="list-style-type: none"> I can determine the approximate square root of a rational number that is a whole number but not a perfect square, without the use of technology. 	<ul style="list-style-type: none"> I can determine the approximate square root of a rational number that is not a whole number or a perfect square, without the use of technology.
	<ul style="list-style-type: none"> I can explain, either in words or pictorially, how a given square and its root are related. 	<ul style="list-style-type: none"> Given a whole number, I can determine the rational number that is its root. 	<ul style="list-style-type: none"> Given a rational number that is not a whole number, I can determine the rational number that is its root. 	<ul style="list-style-type: none"> Given a rational number, I can determine the rational number that is its root, without the use of technology.
Comments:				