

**Numeric Literacy  
Level 5**

<b>State Performance Standards</b>	<b>GLE</b>	<b>Content:</b>	<b>Math V</b>	<b>Skills</b>	<b>Analytical</b>	<b>Contextual</b>	
		<b>Numeration</b>					
A1.3.4, A1.4.4, A3.3.5	[9]N-1, [8] G-5	NL.NM.05.01	Translate between equivalent representations of the same number (i.e. fractions, decimals, percents, exponents, and scientific notation).				
A1.3.7		NL.NM.05.02	Find inverse functions.				
	[8] N-8, [10] N-2	NL.NM.05.03	Apply the order of operations with negative numbers.				
		<b>Measurement</b>					
	[8] MEA-2	NL.MS.05.01	Solve practical problems involving proportion and scale.				
	[9]E&C-4	NL.MS.05.02	Solve practical problems involving rate, time, and distance (i.e. travel, speed, mpg).				
	[10]G-5	NL.MS.05.03	Use multiple strategies, including formulas and manipulatives, to find rates, volume and surface area using correct units.				
	[9] MEA-2	NL.MS.05.04	Find the unknown dimensions of a right triangle using the Pythagorean Theorem or right triangle trigonometry				
		<b>Estimation and Computation</b>					
	[9]N-5, [9] E&C-5	NL.EC.05.01	Perform the proper order of operations with signed numbers and with scientific notations.				
	[9] MEA-1	NL.EC.05.02	Set up and solve rate, ratio, and proportion problems using unit multipliers and conversions (i.e. speed, unit pricing, etc.).				
	[9] G-4	NL.EC.05.03	Calculate the volume and area of complex figures.				
	[9]N-5	NL.EC.05.04	Simplify complex expressions involving absolute value of real numbers.				
	[10] E&C- 3	NL.EC.05.05	Solve problems using percent increase and decrease.				
A3.3.5	[10]E&C-2	NL.EC.05.06	Add, subtract, multiply, and divide rational and common irrational numbers (fraction, decimals, and percents).				
		<b>Functions and Relationships</b>					
	[10]F&R- 2, [9] F&R- 5	NL.FR.05.01	Graph solutions sets of equalities and inequalities.				
	[10]S&P-4	NL.FR.05.02	Evaluate linear data with tables, graphs, and lines of best fit.				
	[10]S&P-1	NL.FR.05.03	Select appropriate scales or graphing ranges for graphing multiple sets of data.				
A4.4.2	[10]PS-3	NL.FR.05.04	Translate word problems into symbolic expressions, equations, or inequalities and solves for unknowns (including linear and quadratic).				

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A4.3.1	[10]F&R-2	NL.FR.05.05	Create formulas from tables of ordered pairs.			
A4.4.1	[10] F&R-2	NL.FR.05.06	Identify and predict the graphs of families of functions (i.e. linear, absolute value, inverse functions, quadratic, and exponential).			
<b>Geometry</b>						
A5.3.5	[9]G-3	NL.GO.05.01	Draw and describe the results of transformations including translations, rotations, reflections, and dilations.			
	[8]G-3	NL.GO.05.02	Apply the properties of equality and proportionality to solve problems involving congruent, similar, or symmetrical shapes.			
		NL.GO.05.03	Use coordinate geometry to graph non-linear equations, and determine intercepts.			
		NL.GO.05.04	Use equations to identify parallel, perpendicular, and oblique lines.			
	[10]G-7	NL.GO.05.05	Find possible solutions to sets of equations or inequalities.			
	[10]G-1	NL.GO.05.06	Solve problems using the relationships of angles formed by parallel, perpendicular and intersecting lines.			
A5.3.3	[9]MEA-2, [10]MEA-2	NL.GO.05.07	Identify and use patterns from right triangles to solve application problems.			
	[9]G-6	NL.GO.05.08	Draw geometric lines using tools and label with proper notations (midpoint, angle bisector, parallel and perpendicular lines, $A  B$ , $S\perp T$ ).			
A5.4.6	[9]G-5	NL.GO.05.09	Apply geometric formulas to a variety of situations (i.e. distance, midpoint, slope, area, and volume).			
<b>Statistics and Probability</b>						
	[10] S&P-1	NL.SP.05.01	Sample and record data systematically (i.e. controlled conditions, proper labels).			
		NL.SP.05.02	Explain how statistics are manipulated to influence decisions.			
A6.3.1	[9]S&P-4, [10] S&P-6	NL.SP.05.03	Analyze data using patterns or lines of best fit and use this information to predict future outcomes, influence decisions, and defend conclusions.			
A6.3.4	[9]S&P-2	NL.SP.05.04	Evaluate whether or not inferences can be made given the parameters of the data.			
<b>Problem Solving</b>						
	[8]PS-5, [9]PS-5	NL.PS.05.01.01	Use and describe math skills in science related applications, issues and careers.			
	[9]PS-3	NL.PS.05.02.01	Represent the information and ideas in a problem using appropriate graphs and sketches.			
	[8]PS-1	NL.PS.05.03.01	Create a spreadsheet (such as a table of function values) to display and evaluate information.			
	[9]PS-3	NL.PS.05.04.01	Maintain a math journal that expresses goals, successes, and areas for improvement and explains mathematical ideas, solutions, and methods.			

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	[9]PS-3	NL.PS.05.05.01	Use appropriate vocabulary and graphics for effective communication in mathematics.			
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