

**Grade Level: 6      Competency/Proficiency Analysis by Sheet (Modules 1-6)      v.4-24-17**

Code	Competency Statement/Proficiency Scale Statement						
		M1	M2	M3	M4	M5	M6
<b>Ratios and Proportional Relationships - 6.RP.A</b>	Content Competency: Students will understand ratio concepts and use ratio reasoning to solve problems.						
Ratios and Unit Rates - 6.RTUR.2A	I can use ratio language to describe a ratio relationship between two quantities. (6.RP.A.1)	X, M, E					
Ratios and Unit Rates - 6.RTUR.2B	I can use rate language in the context of a ratio relationship. (6.RP.A.2)	X, E					
Ratios and Unit Rates - 6.RTUR.2C	I can recognize multiple equivalent representations of ratios (for example, 1:2, 1 to 2, 1/2).	X					
Ratios and Unit Rates - 6.RTUR.3A	I can solve real-world and mathematical problems using ratios and unit rates. (6.RP.A.3)	X,M,E					
<b>The Number System - 6.NS.A</b>	Content Competency: Students will apply and extend previous understandings of multiplication and division to divide fractions by fractions.						
Multiplying and Dividing Fractions - 6.MDFR.2A	I can interpret quotients of fractions. (6.NS.A.1)		X, M, E				
Multiplying and Dividing Fractions - 6.MDFR.2B	I can compute quotients of fractions by using visual fraction models and equations to represent the problem. (6.NS.A.1)		X, M, E				
Multiplying and Dividing Fractions - 6.MDFR.3A	I can solve word problems involving the division of fractions by fractions. (6.NS.A.1)		X, M,				
<b>The Number System - 6.NS.B</b>	Content Competency: Students will compute fluently with multi-digit numbers and find common factors and multiples.						
Addition and Subtraction - 6.AS.2A	I can add and subtract multi-digit decimals using the standard algorithm. (6.NS.B.3) (Required for Grade 6 Fluency)		X, M, E				
Multiplication and Division - 6.MD.2A	I can divide multi-digit numbers using the standard algorithm. (6.NS.B.2) (Required for Grade 6 Fluency)		X, E				
Multiplication and Division - 6.MD.2B	I can multiply and divide multi-digit decimals using the standard algorithm. (6.NS.B.3) (Required for Grade 6 Fluency)	E	X, M, E				
Multiplication and Division - 6.MD.2C	I can find greatest common factor ( $\leq 100$ ) and least common multiple ( $\geq 12$ ) for two whole numbers. (6.NS.B.4)		X, E				
Addition and Subtraction - 6.AS.3A	I can solve real-world and word problems involving multi-digit decimals.						
Multiplication and Division - 6.MD.3A	I can use the distributive property to express a sum of two whole numbers between one and 100 with a common factor as a multiple of a sum of two whole numbers with no common factor. (6.NS.B.4)		X, E				

		M1	M2	M3	M4	M5	M6
<b>The Number System - 6.NS.C</b>	Skill Competency: Students will apply and extend previous understandings of numbers to the system of rational numbers.						
Rational and Irrational Numbers - 6.RINB.2A	I can use positive and negative numbers to represent quantities in real-world context explaining the meaning of zero in each situation. (6.NS.C.5)			X, M, E			
Rational and Irrational Numbers - 6.RINB.2B	I can recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line. (6.NS.C.6a)			X, M, E			
Rational and Irrational Numbers - 6.RINB.2C	I can recognize that the opposite of the opposite of a number is the number itself (for example, $-(-3) = 3$ ). (6.NS.C.6a)			X, E			
Rational and Irrational Numbers - 6.RINB.2D	I can find and position rational numbers, including integers, on a number line. (6.NS.C.6c)			X, M, E			
Rational and Irrational Numbers - 6.RINB.2E	I can interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. (6.NS.C.7a)			X, M, E			
Rational and Irrational Numbers - 6.RINB.3A	I can write, interpret, and explain statements of order for rational numbers in real-world contexts (for example, writing $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that $-3^{\circ}\text{C}$ is warmer than $-7^{\circ}\text{C}$ ). (6.NS.C.7b)			X, M, E			
Rational and Irrational Numbers - 6.RINB.3B	I can interpret absolute value as a magnitude for a positive or negative quantity in a real-world situation. (6.NS.C.7c)			X, M, E			
Rational and Irrational Numbers - 6.RINB.3C	I can distinguish comparisons of absolute value from statements about order. (6.NS.C.7d)			X, M, E			
<b>Expressions and Equations - 6.EE.A</b>	Content Competency: Students will apply and extend previous understandings of arithmetic to algebraic expressions.						
Expressions and Equations - 6.EEQ.2A	I can write expressions involving exponents, numbers, and letters standing for numbers. (6.EE.A.1; 6.EE.A.2a)				X, M		
Expressions and Equations - 6.EEQ.2B	I can identify parts of an expression using mathematical terms. (6.EE.A.2b)				X		
Expressions and Equations - 6.EEQ.2C	I can identify when two expressions are equivalent. (6.EE.A.4)				M		
Expressions and Equations - 6.EEQ.3A	I can evaluate expressions at specific values of their variables including whole-number exponents. (6.EE.A.1; 6.EE.A.2c)				X, M, E		
Expressions and Equations - 6.EEQ.3B	I can generate equivalent expressions using the properties of operations. (6.EE.A.3)				X, M		
<b>Expressions and Equations - 6.EE.B</b>	Skill Competency: Students will reason about and solve one-variable equations and inequalities.						
Equations and Inequalities - 6.EQIE.2A	I can use substitution to determine whether a given number makes an equation or inequality true. (6.EE.B.5)				X, E		
Equations and Inequalities - 6.EQIE.2B	I can use variables to represent numbers and write expressions. (6.EE.B.6)				X, E		

		M1	M2	M3	M4	M5	M6
Equations and Inequalities - 6.EQIE.2C	I can represent solutions of inequalities on number line diagrams. (6.EE.B.8)				X, E		
Equations and Inequalities - 6.EQIE.3A	I can solve real-world and mathematical equations of the form $x + p = q$ and $px = q$ when all variables are nonnegative, rational numbers. (6.EE.B.7)				X, E		
Equations and Inequalities - 6.EQIE.3B	I can write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition of a real-world or mathematical problem (6.EE.B.8)				E		
<b>Expressions and Equations - 6.EE.C</b>	Skill Competency: Students will represent and analyze quantitative relationships between dependent and independent variables.						
Dependent and Independent Variables - 6.VAR.2A	I can write an equation to express one quantity (dependent variable) in terms of the other quantity (independent variable). (6.EE.C.9)				X, E		
Dependent and Independent Variables - 6.VAR.3A	I can analyze the relationship between the independent and dependent variable using graphs, tables, and equations. (6.EE.C.9)				X, E		
<b>Geometry - 6.G.A</b>	Skill Competency: Students will solve real-world and mathematical problems involving area, surface area, and volume.						
Coordinate Systems - 6.CRDS.2A	I can draw polygons in the coordinate plane given coordinates for the vertices. (6.G.A.3)					X, E	
Coordinate Systems - 6.CRDS.2B	I can find and position rational numbers, including integers, on a coordinate plane. (6.NS.C.6)			X, E			
Coordinate Systems - 6.CRDS.2C	I can understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the location of the points are related by reflection across one or both axes. (6.NS.C.6b)			X, E			
Coordinate Systems - 6.CRDS.2D	I can graph points (including rational numbers) in all four quadrants of the coordinate plane to solve real-world and mathematical problems. (6.NS.C.6; 6.NS.C.8; 6.G.A.3)			X, E		E	
Area - 6.AREA.2A	I can find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes. (6.G.A.1)					X, M, E	
Surface Area - 6.SFAR.2A	I can represent three-dimensional figures using nets made up of rectangles and triangles. (6.G.A.4)					E	
Volume - 6.VOL.2A	I can find the volume of a right rectangular prism by packing it with unit cubes of the appropriate fractional edge length. (6.G.A.2)					X, E	
Coordinate Systems - 6.CRDS.3A	I can use coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate. (6.NS.C.8)			X, E		X, M	

		M1	M2	M3	M4	M5	M6
Coordinate Systems - 6.CRDS.3B	I can use coordinate to find the length of a side joining points with the same first coordinate or the same second coordinate. (6.G.A.3)					M	
Area - 6.AREA.3A	I can solve real-world or mathematical problems involving the area of polygons. (6.G.A.1)					X, M, E	
Surface Area - 6.SFAR.3A	I can solve real-world and mathematical problems involving the surface area of a right prism. (6.G.A.4)					X, E	
Surface Area - 6.SFAR.3B	I can use nets to find the surface area of the figure. (6.G.A.4)					X, E	
Volume - 6.VOL.3A	I can apply the formulas $V = lwh$ and $V = bh$ to find the volume of a right rectangular prism with fractional edge lengths in the context of solving real-world and mathematical problems. (6.G.A.2)					X, E	
<b>Statistics and Probability - 6.SP.A</b>	Content Competency: Students will develop an understanding of statistical variability.						
Data Distributions - 6.DATD.2A	I can describe the distribution of a set of data by center, spread, and overall shape. (6.SP.A.2)						X, M, E
<b>Statistics and Probability - 6.SP.B</b>	Skill Competency: Students will summarize and describe distributions.						
Data Distributions - 6.DATD.2B	I can display numerical data in plots on a <a href="#">number line</a> , histogram, <a href="#">dot plot</a> , or a box plot. (6.SP.B.4)						X, M, E
Data Distributions - 6.DATD.2C	I can describe surface features of numerical data sets (for example, number of observations, how the attribute was measured, units of measurement). (6.SP.B.5a; 6.SP.B.5b)						X, M, E
Data Distributions - 6.DATD.3A	I can calculate quantitative measures of center (median, mean) and variability (interquartile range, mean absolute deviation). (6.SP.B.5c)						X, M, E
Data Distributions - 6.DATD.3B	I can describe patterns and deviations from patterns in the data. (6.SP.B.5c)						X, M, E
Data Distributions - 6.DATD.3C	I can choose the appropriate measure of center and variability based on the shape of the data distribution and the context in which the data were gathered. (6.SP.B.5d)						X, M, E
Data Distributions Vocabulary	<b>Data Distributions (6 – 521) (MDSP)</b> <b>2.0 The student will recognize or recall specific vocabulary, such as:</b> • Attribute, box plot, calculate, center, context, data, data set, deviation, distribution, histogram, interquartile range, mean, mean absolute deviation, measure, measure of center, measure of variability, measurement, median, numerical, observation, pattern, quantitative, shape, spread, surface feature, unit, (6.SP.A.1; 6.SP.A.3)						X, M, E
	Not aligned						X, M
From Grade 5							

Decimal Concepts - 5.DC.2A	I can describe the value of digits in a multi-digit number (for example, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left). (5.NBT.A.1)		E				
Decimal Concepts 5.DC.3A	I can use whole number exponents to denote powers of 10. (5.NBT.A.2)				X		
Decimal Concepts - 5.DC.2B	I can explain patterns in the number of zeroes and the decimal point when multiplying or dividing by powers of 10. (5.NBT.A.2)		E				
Decimal Concepts - 5.DC.2C	I can read and write decimals to thousandths using base-ten numerals, number names, and expanded form. (5.NBT.A.3a)		E				
Grade 4							
Perimeter - 4.PER.3A	I can apply the perimeter formula for rectangles in real-world and word problems. (4.MD.A.3)		E				
<b>Grade 3</b>							
Properties of Operations 3.PRPO.3A	I can apply properties of operations as strategies to multiply and divide (for example, commutative, associative, distributive*). (3.OA.B.5)				X		
Properties of Operations 3.PRPO.3B	I can explain arithmetic patterns (addition or multiplication table) using the properties of operations. (3.OA.D.9)				X		
<b>Grade 1</b>							
Properties of Operations 1.PRPO.3A	I can apply properties of operations as strategies to add and subtract (for example, commutative, associative*) (1.OA.B.3)				X		