

Grade Level: 5 Competency/Proficiency Analysis Sheet (Modules 1 – 6) v.9-28-16

Code	Competency Statement/Proficiency Scale Statement	M1	M2	M3	M4	M5	M6		
Operations and Algebraic Thinking - 5.OA.A	Skill Competency: Students will write and interpret numerical expressions.								
Expressions and Equations - 5.EEQ.2A	I can evaluate expressions with parentheses, brackets, or braces. (5.OA.A.1)				M				
Expressions and Equations - 5.EEQ.3A	I can write linguistically-expressed calculations using symbols (for example, expressing “add eight and seven, then multiply by two” as $2 \times (8 + 7)$). (5.OA.A.2)		X,M,E		M,E				
Expressions and Equations - 5.EEQ.3B	I can interpret numerical expressions without evaluating them (for example, $3 \times (183 + 921)$ is three times as large as $183 + 921$). (5.OA.A.2)		X,M		X				
Operations and Algebraic Thinking - 5.OA.B	Skill Competency: Students will analyze patterns and relationships.								
Patterns - 5.PTRN.2A	I can generate numerical patterns using given rules. (5.OA.B.3)						X,E		
Patterns - 5.PTRN.3A	I can form ordered pairs from numerical patterns. (5.OA.B.3)						M,E		
Patterns - 5.PTRN.3B	I can interpret the relationship between patterns by graphing ordered pairs on a coordinate plane. (5.OA.B.3)						X,M,E		
Number – Base Ten - 5.NBT.A	Content Competency: Students will understand the place value system.								
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)	X,M							
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)	X,M,E	X,M,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)	X,M							
Decimal Concepts - 5.DC.3A	I can use whole number exponents to denote powers of 10. (5.NBT.A.2)	X	M,E						
Decimal Concepts - 5.DC.3B	I can compare two decimals to thousandths. (5.NBT.A.3b)	X,M,E							
Decimal Concepts - 5.DC.3C	I can round decimals to any place. (5.NBT.A.4)	X,M,E							

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Number – Base Ten - 5.NBT.B	Skill Competency: Students will perform operations with multi-digit whole numbers and with decimals to hundredths.								
Addition and Subtraction - 5.AS.2A	I can add and subtract decimals to hundredths using concrete models or drawings. (5.NBT.B.7)	X,E							
Multiplication and Division - 5.MD.2A	I can multiply whole numbers and divide whole numbers with up to four-digit dividends and two-digit divisors. (5.NBT.B.5; 5.NBT.B.6) (Required Fluency for Grade 5 - 5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.)		X,M,E		X,E				
Multiplication and Division - 5.MD.2B	I can multiply and divide decimals to hundredths using concrete models or drawings. (5.NBT.B.7)	X,E							
Addition and Subtraction - 5.AS.3A	I can add and subtract decimals to hundredths and explain the strategies and reasoning used. (5.NBT.B.7)	E	M						
Multiplication and Division - 5.MD.3A	I can illustrate and explain the multiplication and division of whole numbers using equations, rectangular arrays, and/or area models. (5.NBT.B.5; 5.NBT.B.6)	E	X,E		X				
Multiplication and Division - 5.MD.3B	I can multiply and divide decimals to hundredths and explain the strategies and reasoning used. (5.NBT.B.7)	X,E	X,M,E		X,E				
Number – Fractions - 5.NF.A	Skill Competency: Students will use equivalent fractions as a strategy to add and subtract fractions.								
Adding and Subtracting Fractions - 5.ASFR.2A	I can add and subtract fractions with unlike denominators, including mixed numbers. (5.NF.A.1)			X					
Adding and Subtracting Fractions - 5.ASFR.3A	I can solve word problems involving the addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. (5.NF.A.2)			X,M,E	X				
Adding and Subtracting Fractions - 5.ASFR.3B	I can use benchmark fractions to estimate answers and check for reasonableness. (5.NF.A.2)			X,M					
Number – Fractions - 5.NF.B	Skill Competency: Students will apply and extend previous understandings of multiplication and division to multiply and divide fractions.								
Multiplying and Dividing Fractions - 5.MDFR.2A	I can interpret a fraction as division of the numerator by the denominator and determine the location of the fraction between two whole numbers. (5.NF.B.3)				X,M,E				
Multiplying and Dividing Fractions - 5.MDFR.2B	I can multiply a fraction by a whole number or a fraction. (5.NF.B.4)				X,M,E	X,E			
Multiplying and Dividing Fractions - 5.MDFR.2C	I can interpret multiplication as scaling (for example, multiplying a given number by a fraction greater than 1 results in a product greater than the given number; multiplying a given number by a fraction less than 1 results in a product smaller than the given number). (5.NF.B.5)				X,E				

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Multiplying and Dividing Fractions - 5.MDFR.2D	I can divide unit fractions by whole numbers and whole numbers by unit fractions. (5.NF.B.7a; 5.NF.B.7b)				E				
Multiplying and Dividing Fractions - 5.MDFR.3A	I can solve real-world problems involving multiplication of fractions and mixed numbers (5.NF.B.6)				X,M,E	X,E			
Multiplying and Dividing Fractions - 5.MDFR.3B	I can solve real-world problems involving division of unit fractions by nonzero whole numbers and division of whole numbers by unit fractions (5.NF.B.7c)				X,E				
Measurement and Data - 5.MD.A	Content Competency: Students will convert like measurement units within a given measurement system.								
Measurement - 5.MEAS.2A	I can convert among different-sized standard measurement units within a given measurement system (for example, feet to yards, centimeters to meters). (5.MD.A.1)	X,M	X,E		X,M,E	E			
Measurement - 5.MEAS.3A	I can use conversions to solve multistep word problems. (5.MD.A.1)				E				
Measurement and Data - 5.MD.B	Skill Competency: Students will represent and interpret data.								
Representing and Interpreting Data - 5.RIDT.2A	I can make a line plot of measurement data in fractions of a unit. (5.MD.B.2)				X				
Representing and Interpreting Data - 5.RIDT.3A	I can use operations to solve problems involving line plots with data in fractions of a unit. (5.MD.B.2)				M,E				
Measurement and Data - 5.MD.C	Skill Competency: Students will understand concepts of volume and relate volume to multiplication and to addition. (Geometric Measure)								
Volume - 5.VOL.2A	I can explain that volume is an attribute of solid figures. (5.MD.C.3)					M			
Volume - 5.VOL.2B	I can measure volume by counting unit cubes, using cubic centimeters, cubic inches, cubic feet, and improvised units and understand the relationship between the sum of the cubes and the volume formula, $V = l \times w \times h$. (5.MD.C.4; 5.MD.C.5a)					X,M			
Volume - 5.VOL.3A	I can apply the formula $V = l \times w \times h$ to find the volume of right rectangular prisms. (5.MD.C.5b)					X,M,E			
Volume - 5.VOL.3B	I can find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the parts. (5.MD.C.5c)					X,M,E			

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Geometry - 5.G.A	Content Competency: Students will graph points on the coordinate plane to solve real-world and mathematical problems.								
Coordinate Systems - 5.CRDS.2A	I can describe the coordinate system as a set of perpendicular number lines. (5.G.A.1)						X		
Coordinate Systems - 5.CRDS.2B	I can describe how to find a given point on the plane (for example, using an ordered pair of numbers corresponding to a position on each number line or axis). (5.G.A.1)						X,M,E		
Coordinate Systems - 5.CRDS.3A	I can graph points in the first quadrant of the coordinate plane. (5.G.A.2)						E		
Coordinate Systems - 5.CRDS.3B	I can interpret the coordinate points according to the context. (5.G.A.2)						X,E		
Geometry - 5.G.B	Content Competency: Students will classify two-dimensional figures into categories based on their properties.								
Shapes - 5.SHAP.2A	I can describe the properties of two-dimensional figures. (5.G.B.3)					X			
Shapes - 5.SHAP.3A	I can classify two-dimensional figures in a hierarchy based on properties. (5.G.B.4)					X,E			
4.FRAC.2A	I can recognize and generate equivalent fractions. (4.NF.A.1)			X					
4.ASFR.2B	I can decompose a fraction into a sum of fractions with the same denominator in a variety of ways (for example, $3/8 = 1/8 + 1/8 + 1/8$). (4.NF.B.3b)			X					
4.AREA.2A	I can apply the area formula for rectangles in mathematical problems. (4.MD.A.3)					E			
4.AREA.3A	I can apply the area formula for rectangles in real-world and word problems. (4.MD.A.3)					E			

X = Exit ticket

M = MidModule Assessment

E = End of Module Assessment