CURRICULUM UNIT MAP 1ST QUARTER

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of Formative Assessment(s)	End-of-Unit Benchmark or Performance Assessment
Unit 1: Pre-Algebra Basics I WEEK 1-2—OBJECTIVES Apply properties for operations to	Write powers as products Write powers in standard form Write numbers in exponential form	5-question Clicker Quizzes on each of the following:	Unit 1 Benchmark Assessment (Pre- Algebra Basics I)
positive rational numbers and integers Write products of like bases in exponential form Identify and use the algebraic properties with math operations	Evaluate expressions using order of operations Evaluate expressions with powers Use addition and multiplication properties to solve problems Write numbers greater than 100 in scientific notation	Powers as Products Powers in Standard Form Exponential Form Order of Operations Expressions with Powers Addition and Multiplication Properties Scientific Notation Review Clicker Quizzes (All CLTs)	
Unit 2: Patterns WEEK 3-4—OBJECTIVES Evaluate the representations of patterns Analyze patterns represented graphically or numerically with words or symbolic rules Compare and contrast various forms of representations of patterns	Experiment with patterns Set up tables and fill in the nth term Identify arithmetic and geometric patterns Solve word problems involving patterns Make an Eratosthenes Sieve	5-question Clicker Quizzes on each of the following: Number Patterns Table Patterns Arithmetic and Geometric Daily Exit Tickets with 1 Pattern Word Problem Each Eratosthenes Sieve Paper-Pencil Quiz	Unit 2 Benchmark Assessment (Patterns)
Unit 3: DataCollection & Interpretation WEEK 5—OBJECTIVES Interpret the measures of center and	Create a survey Interpret the results of a survey	Choosing Non-Biased Questions for a Survey Clicker Quiz Interpretation of Survey Results Clicker Quiz	Unit 3 Benchmark Assessment (Project: Create a survey, interpret the results, construct a frequency
spread Collect and display data	Make frequency tables to compare results	Frequency Tables Clicker Quiz Choosing Correct Charts and Graphs for Surveys Clicker Quiz	table, construct an appropriate graph and/or chart of the results, write a paragraph stating the conclusions
Make conjectures about findings from collected data Draw conclusions from observed data	Illustrate results from a survey with graphs and charts Write a paragraph stating conclusions drawn from a survey	Write a Paragraph Stating Conclusions Drawn from a Given Survey Exit Ticket	drawn from the survey, and present to the class.)

CURRICULUM UNIT MAP 1ST QUARTER (Cont'd)

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of	End-of-Unit Benchmark or
		Formative Assessment(s)	Performance Assessment
Unit 4: Data—Representations &	Find mean, median, mode, and range	Mean, Median, Mode, & Range Clicker Quiz	Unit 4 Benchmark Assessment
Analysis WEEK 6-7—OBJECTIVES Recognize and analyze the measures	Interpret which measure of central tendency (mean, median, or mode) gives the best picture of the data	Mean, Median, Mode, & Range Exit Ticket (1 Set of Data)	(Data—Representations & Analysis)
of center and spread	Construct and make predictions from a scatter plot	Best Representation of Data (Mean, Median, and Mode) Clicker Quiz	
Recognize the measures of central tendency	Construct and analyze the measures of central tendency from line plots	Scatter Plot Construction and Predictions Exit Ticket (1 Set of Data)	
Determine appropriate methods for representing data	Construct stem-and-leaf plots and find the median, range, and quartiles from the displayed data	Line Plot Construction and Analysis Clicker Quiz	
Analyze data	Construct and interpret box-and-whisker plots	Line Plot Construction and Analysis Exit Ticket (1 Set of Data)	
	Use the graphing calculator to determine the measures of central tendency and to construct	Stem-and-Leaf Plot Construction and Analysis Clicker Quiz	
	box-and-whisker plots (Optional)	Stem-and-Leaf Plot Construction and Analysis Exit Ticket (1 Set of Data)	
		Box-and-Whisker Plot Construction and Interpretation Clicker Quiz	
		Box-and-Whisker Plot Exit Ticket (1 Set of Data)	
		Review Clicker Quiz (ALL CLTs)	

CURRICULUM UNIT MAP 2nd QUARTER

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of	End-of-Unit Benchmark or
		Formative Assessment(s)	Performance Assessment
Unit 6: Pre-Algebra Basics II	Read and write integers	Clicker Quiz and/or Exit Tickets over the	Unit 6 Benchmark Assessment (Pre-
WEEK 1-3—OBJECTIVES	Determine the absolute value of an integer	following:	Algebra Basics II)
Define, operate, and apply operations on integers	Use counters to model the addition of integers	Reading & Writing Integers Absolute Value	
Identificant determine the least on of	Add integers	Adding Integers	
Identify and determine the location of integers on a number line	Use counters to model the subtraction of integers	Subtracting Integers Multiplying Integers	
Order rational numbers particularly with	Subtract integers	Dividing Integers	
integers	Multiply integers	Ordering Rational Numbers With & Without a Number Line Clicker Quiz and Exit Tickets	
Apply operations on positive and negative	Divide integers	Real-Life Use of Integers Clicker Quiz	
integers including the use of absolute value	Apply integers to real-life problems	-	
value	Graph points on a number line	Graphing Points on a Number Line Exit Ticket	
Apply integer concepts to real-life situations using multi-step problems	Graph points on a namber line	Operations on Integers Review Clicker Quiz	
Unit 7: Linear Equations	Translate verbal phrases and sentences into	Clicker Quiz and/or Exit Tickets over the	Unit 7 Benchmark Assessment (Linear
WEEK 4-6—OBJECTIVES	algebraic expressions and equations	following:	Equations)
Solve one-step and two-step linear	Solve equations using models	Translating Words into Algebraic Symbols Addition/Subtraction One-Step Equations	
equations and inequalities with one variable	Solve addition and subtraction equations	Multiplication/Division One-Step Equations Addition & Subtraction Two-Step Equations	
	Solve multiplication and division equations	Multiplication/Division Two-Step Equations One- and Two-Step Inequalities	
Extend the graph of linear equations to	Solve 2-Step Equations	Real-Life Problems Linear Equations Exit	
solve real-life problems	Solve inequalities	Tickets (3-5 Days)	
	Graph linear equations for real-life problems and extend the graph to predict or solve them		

CURRICULUM UNIT MAP 2nd QUARTER (Cont'd)

COURSE TITLE:	Mathematics	GRADE:	7

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of	End-of-Unit Benchmark or
		Formative Assessment(s)	Performance Assessment
Unit 8: Linear & Nonlinear Functions	Make a function table	Making Function Table Exit Ticket (3-5 Days)	Unit 8 Benchmark Assessment (Linear
WEEK 6-9—OBJECTIVES	Identify a linear function from a table	Identify Linear Functions from Tables Clicker	and Nonlinear Functions)
dentify linear and neplinear functions		Quiz	
dentify linear and nonlinear functions	Identify a linear function from a graph	Identify Linear Functions from Graphs Clicker	
Graph functions on a scatter plot	Identify a linear function from an equation	Quiz and Exit Ticket (3-5 Days)	
Graph linear equations	Graph solutions of linear equations	Identify Linear Functions from Equations Clicker Quiz	
Identify the slope of a line	Determine the slope of a line given a graph and ordered pairs	Identify Linear and Nonlinear Functions Clicker Quiz (Table, Graph, and Equation)	
	Determine positive and negative slope	Graph Solutions of Linear Equations Exit Ticket	
	Compare slopes	(3-5 Days)	
		Determine the Slope of a Line Clicker Quiz (Graphs and Ordered Pairs)	
		Determine Positive and Negative Slope Clicker Quiz	
		Write a Paragraph Comparing Slopes of 4 Different Lines Exit Ticket (2-3 Days)	

CURRICULUM UNIT MAP 3rd QUARTER

COURSE TITLE:	Mathematics	GRADE:	7
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Unit Title and Objectives	List CLTs for Each Objective	Brief Description of Formative Assessment(s)	End-of-Unit Benchmark or Performance Assessment
Unit 9: Fractions, Decimals, & Percents WEEK 1-3—OBJECTIVES Generate equivalent forms of fractions, decimals, and percents Compare and order fractions, decimals, and percents	Convert decimals to fractions and fractions to decimals Convert fractions to percents and percents to fractions Convert decimals to percents and percents to fractions Compare fractions, decimals, and percents Order fractions, decimals, and percents	Converting Decimals to Fractions and Fractions to Decimals clicker quiz Converting Fractions to Percents and Percents to Fractions clicker quiz Converting Decimals to Percents and Percents to Fractions clicker quiz Clicker Quiz to review converting all	Unit 9 Benchmark Assessment (Fractions, Decimals, & Percents)
Huit 40. Batas Batisa O Bassatiana	Identify and calculate unit rates	Comparing and Ordering Fractions, Decimals, and Percent Clicker Quiz and Exit Tickets (5 Days) Clicker Quizzes over the following:	Livit 10 Day along all 10 and and and
Unit 10: Rates, Ratios, & Proportions WEEK 4-6—OBJECTIVES Solve problems involving unit rates and ratios	Identify and calculate unit rates Compare numbers as ratios Calculate the best buy Apply unit rates to real-life problems Identify and equivalent ratios	Identifying and Calculating Unit Rates Comparing Numbers as Ratios Calculating Best Buy (Exit Tickets 5 Days)	Unit 10 Benchmark Assessment (Rates, Ratios, & Proportions)
Solve problems involving proportions such as scaling, finding equivalent ratios, and percent proportion	Evaluate proportions when a variable is used Relate proportions to scale drawings and solve problems involving scale drawings Solve problems using the percent proportion	Applying Unit Rates to Real-Life Problems Exit Tickets (5 Days) Evaluating Proportions with a Variable	
		Solving Scale Problems Using Proportions Clicker Quiz and Exit Tickets (2-3 Days) Solving Problems Using the Percent Proportion	

CURRICULUM UNIT MAP 3rd QUARTER (Cont'd)

COURSE TITLE:	Mathematics	GRADE:	7
COURSE TITLE	Mathematics	GRADE	/

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of Formative Assessment(s)	End-of-Unit Benchmark or Performance Assessment
Unit 11: Probability WEEK 7—OBJECTIVE Use models to compute the	Compare experimental and theoretical probability	Experimental and Theoretical Probability Clicker Quiz	Unit 11 Benchmark Assessment (Probability)
probability of an event and make conjectures about the results of the experiments	Compute the probability of an event Experiment and interpret the results	Computing the Probability of an Event Clicker Quiz and Exit Ticket (2 Days) Experimenting with Probability and Interpreting Results Class Activity Exit Ticket	
Unit 12: Volume WEEK 8-9—OBJECTIVES	Identify and justify the unit of measure for volume (customary and metric)	Identifying and Justifying the Correct Unit of Measure for Volume Clicker Quiz	Unit 12 Benchmark Assessment (Volume)
Investigate volume	Converting volume measures within a system of measurement	Converting Volume Measures within a System of Measurement Clicker Quiz and Exit Ticket (3-5 Days)	
	Calculate volume of various three-dimensional figures using formulas	Calculating Volume Clicker Quiz and Exit Ticket (3-5 Days)	

CURRICULUM UNIT MAP 4th QUARTER

COURSE TITLE:	Mathematics	GRADE:	7

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of Formative Assessment(s)	End-of-Unit Benchmark or Performance Assessment
Unit 13: Area WEEK 1-3—OBJECTIVES	Find square of numbers and square roots of perfect squares	Perfect Squares, Non-Perfect Square, and Square Roots Clicker Quiz	Unit 13 Benchmark Assessment (Area)
Identify, calculate, and compare & contrast area of polygons and circles	Find length using the Pythagorean Theorem	Pythagorean Theorem Clicker Quiz & Exit Ticket (2-3 Days)	
	Find the area of a parallelogram	Area Exit Tickets (5-7 Days)	
	Find the area of triangles and trapezoids Find the area of circles Apply area of circles to real-life problems Find area of complex figures	Real-Life Area of Circles Clicker Quiz Complex Area Exit Tickets (2-3 Days)	
		Area Review Clicker Quiz	
Unit 14: Angles & Angle Measurement	Use a protractor to determine the measure of angles	Measure Angles with a Protractor Pencil-Paper Quizzes (3 Quizzes)	Unit 14 Benchmark Assessment (Angle & Angle Measurement)
WEEK 4-5—OBJECTIVES Apply appropriate techniques, tools,	Identify angles according to their measure (acute, obtuse, right, straight, or reflex)	Identification of Angles Clicker Quiz	
and formulas to determine measurements	Draw angles using a protractor	Drawing Angles with a Protractor Pencil-Paper Quizzes (3 Quizzes)	
		Angles & Angle Measurement Review Clicker Quiz	

CURRICULUM UNIT MAP 4th QUARTER

Unit Title and Objectives	List CLTs for Each Objective	Brief Description of Formative Assessment(s)	End-of-Unit Benchmark or Performance Assessment
Unit 15: Two- and Three-Dimensional Shapes	Use coordinate geometry to construct and identify geometric shapes in the coordinate plane	Identifying Geometric Shapes in a Coordinate Plane Clicker Quiz	Unit 15 Benchmark Assessment (Geometry)
WEEK 6-9—OBJECTIVES Specify locations and describe spatial relationships using coordinate	Identify two-dimensional shapes according to the number of sides Identify the number of degrees in triangles	Constructing Geometric Shapes in a Coordinate Plane Exit Ticket	
geometry	(180), quadrilaterals (360), and circles (360) and be able to use this information to solve problems	Identifying Number of Degree in Various Polygons Clicker Quiz	
Analyze characteristics and properties of two- and three-dimensional geometric shapes	Classify triangles according to their sides and their angle measures Classify quadrilaterals according to their sides	Solving Problems With Missing Angles Degrees Exit Tickets (2-3 Days)	
Use visualization, spatial reasoning,	and their angle measures Classify polygons as regular or irregular	Classifying Triangles According to Sides and Angles Clicker Quiz	
and geometric modeling to solve problems	Identify common three-dimensional polyhedra: triangular prisms, rectangular	Classifying Quadrilaterals According to Sides and Angles Clicker Quiz	
Apply transformations and use symmetry to analyze mathematical	prisms, cubes, triangular pyramids, and rectangular pyramids Identify the vertices, edges, and number of	Classifying Polygons as Regular or Irregular Exit Ticket	
situations	faces of three-dimensional shapes Identify the net for a given three-dimensional shape—both polyhedra and non-polyhedra	Identifying Common Three-Dimensional Polyhedra Clicker Quiz and Exit Tickets (2-3)	
	Identify the 2-dimensional cross-section of a 3-dimensional shape (Example: horizontal cross-section of a cylinder is a circle and	Identifying Vertices, Edges, and Faces of a Three-Dimensional Shape Exit Tickets (2-3)	
	vertical cross-section of a cylinder is a rectangle) Identify and create two-dimensional views of	Identifying the Nets for Given Shapes Clicker Quiz and Exit Tickets (2-3 Days)	
	isometric drawings Identify and describe the relationship between the scale factor and the perimeter of an image	Cross-Sectional Views Clicker Quiz	
	using a dilation Determine all lines of symmetry of a polygon	Identifying and Creating Two-Dimensional Views of Isometric Drawings Class Activity	
		Scale Drawing/Proportion/Dilation Class Activity	
		Determining Lines of Symmetry Clicker Quiz	

	and Exit Tickets (2-3 Days)	