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Unit:	**One – The Number System**
Big Ideas:	Number Sets/Powers, Exponents, and Roots/Operations with Monomials
Unit Essential Questions:	How can mathematical ideas be presented?

Concept & Pacing	Pa Core Standard	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
Chapter Launch **1 Day**	See Below	See Below	What are Real Numbers?	Order of Operations (Page 4 in book)	Graphic Organizers Student Built Glossary		
Rational Numbers **1 Day**	C.C.2.1.8.E.1	rational number repeating decimal repeating terminating decimal	How can you determine if a number is a rational number?	Distinguish between rational, whole, natural, and integers using their properties. Apply place value to show an understanding of operations and rounding as they pertain to whole numbers and decimals. Connect decimal notation to fractions, and compare decimal fractions (base 10	Rational/Irrational Card Sort Kahoot: Fractions, Decimals, and Percents	Glencoe Math Course 3 Chapter 1 Lesson 1 Google Drawing Kahoot	Kahoot Results

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				denominator, e.g, 19/100). Apply properties of operations to generate equivalent expressions. Write fractions as decimals and decimals as fractions.			
Powers and Exponents 1 Day	C.C.2.2.8.B.1	base exponent power	How can I write repeated multiplication using powers?	Write and evaluate numerical and algebraic expressions involving powers and exponents.	Quizizz: Fractions to Decimals Laws of Exponents Foldable	Glencoe Math Course 3 Chapter 1 Lesson 2 Laws of Exponents Foldable	
Multiply and Divide Monomials 2 Days	C.C.2.2.8.B.1	monomial	How can I use the properties of integer exponents to simplify algebraic and numeric expressions?	Use the Laws of Exponents to find powers of monomials. Product of Powers Property Quotient of Powers Property	BrainPOP video: Multiplying and Dividing Exponents	Glencoe Math Course 3 Chapter 1 Lesson 3 PSSA Math Formula Sheet	Quiz
Powers of Monomials 1 Day	C.C.2.2.8.B.1		How does the Product of Powers law apply to finding the power of a power?	Use the Laws of Exponents to find powers of monomials. Power of a Power Property Power of a Product Property	White Boards or Pass the Marker with Skills Practice Worksheet	Glencoe Math Course 3 Chapter 1 Lesson 4 White Boards PSSA Math Formula Sheet	White Board Assessment
Negative Exponents	C.C.2.2.8.B.1		How are negative exponents and	Simplify expressions	BrainPOP video: Exponents	Glencoe Math Course 3 Chapter 1	Problem Solving

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2 Days			positive exponents related?	involving negative exponents. Zero and Negative Exponent Properties	Exponential Form/Standard Form Chart Exploration Page 43 Whiteboards or Pass the Marker with Skills Practice Worksheet	Lesson 5 PSSA Math Formula Sheet	Practice Worksheet
Scientific Notation 1 Day	C.C.2.2.8.B.1	scientific notation	How is scientific notation useful in the real world?	Use scientific notation to write large and small numbers. Compare numbers in scientific notation.	BrainPOP Video: Scientific Notation Expression/Product Table Exploration Page 51		
Powers and Scientific Notation Review Day					Kahoots: Scientific Notation Zero and Negative Exponents	Glencoe Math Course 3 Chapter 1 Lesson 6 PSSA Math Formula Sheet	Kahoot Results
Compute with Scientific Notation 2 Days	C.C.2.2.8.B.1		How does scientific notation make it easier to perform computations with very large or very small numbers?	Multiply and Divide with numbers in Scientific Notation	Whiteboards with Guided Practice Problems	Glencoe Math Course 3 Chapter 1 Lesson 7 White Boards	White Board Assessment Quiz
Roots 1 Day	C.C.2.1.8.E.1; C.C.2.1.8.E.4	cube root perfect cube perfect square radical sign square root	Why would I need to use square roots and cube roots?	Find square roots and cube roots. Solve equations involving square roots and cube roots.	Perfect Squares Table	Glencoe Math Course 3 Chapter 1 Lesson 8 Perfect Squares Table	
Estimate Roots 1 Day	C.C.2.1.8.E.4		How can I estimate the square root of a	Estimate square and cube roots.	Gravity Video Perfect Squares Table	Glencoe Math Course 3 Chapter 1	

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			non-perfect square?	Estimate irrational numbers by comparing them to rational numbers.	Jamboard: Squares/Square Roots	Lesson 9 Perfect Squares Table	
Compare Real Numbers **1 Day**	C.C.2.1.8.E.1	irrational number real number	How are real numbers different from irrational numbers?	Distinguish between rational and irrational numbers using their properties. Extend the understanding of fractions to show equivalence and ordering. Connect decimal notation to fractions, and compare decimal fractions (base 10 denominator, e.g, 19/100). Compare mathematical expressions.	Vocabulary Chart Page 94 Venn Diagram (in book Paeg 90) Google Drawing: Real Number Venn Diagram Jamboard: Order Real Numbers Number Line Quizizz: Guided Practice	Glencoe Math Course 3 Chapter 1 Lesson 10 Google Drawing and Jamboard Quizizz	Quizizz Results
Chapter Review/Test **3 Days**					Jeopardy Review Graded Quizizz Review Scientific Notation Mad Lib Quizlet - vocab review	Google Slides: Jeopardy Quizlet- vocab review Scientific Notation Mad Lib	Quizizz Scientific Notation Mad Lib Test

Total Days = 18 (recommended 20)

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Unit:	**Two – Expressions and Equations**						
Big Ideas:	Writing and Solving Equations in One or Two Variables/Slope/Graphing Linear Equations/Solving Systems of Equations						
Unit Essential Questions:	How can you communicate mathematical ideas effectively?						
Concept & Pacing	**New Emphasis (Pa Core Standard)**	**Key Vocabulary**	**Essential Questions**	**Competencies (skills, knowledge, abilities)**	**Mini-Lessons/Activities**	**Instructional Materials (In addition to Textbook and Calculator)**	**Assessments**
Chapter Launch 1 Day	See Below	See Below	What is a linear equation?	Solve one-step equations involving only integers.	Student Built Glossary BrainPOP Video: Equations with Variables		Practice Worksheets with One-Step Equations
One-Step Equation Kahoot Day	See Below	See Below		Solve one-step equations involving only integers.	Kahoot: Solve One-Step Equations	Bell Ringer Worksheet	Kahoot Results
Solve Equations with Rational Coefficients 1 Day	C.C.2.2.8.B.3	coefficient multiplicative inverse	How is the multiplicative inverse used to solve an equation that has a rational coefficient?	Solve equations with rational coefficients.	White Board Activity with Guided Practice and Independent Practice Problems	Glencoe Math Course 3 Chapter 2 Lesson 1 White Boards	White Board Assessment

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Solve Two-Step Equations **1 Day**	C.C.2.2.8.B.3	properties two-step equation	How can you use the work backward problem-solving strategy to solve a two-step equation?	Solve two-step equations.	BrainPOP Video: Two-Step Equations White Board Activity with Guided Practice and Independent Practice Problems	Glencoe Math Course 3 Chapter 2 Lesson 2 White Boards	White Board Assessment
Two-Step Equation Quizizz Day				Solve two-step equations involving rational numbers.	Quizizz with Worksheet 101	Quizizz Worksheet 101	Quizizz Results
Write Two-Step Equations **2 Days**	C.C.2.2.8.B.3		Why is it important to define a variable before writing an equation?		Face/Shoulder Partners with Extra Practice and Word Problem Practice Lesson 3 Worksheets	Glencoe Math Course 3 Chapter 2 Lesson 3 Extra Practice and Word Problem Practice Lesson 3 Worksheets	Quiz
Solve Equations with Variables on Each Side **2 Days**	C.C.2.2.8.B.3		How is solving an equation with the variable on each side similar to solving a two-step equation?	Solve algebraic equations with variables on the same side. Solve algebraic equations with variables on different sides.	Combining Like Terms Activity	Glencoe Math Course 3 Chapter 2 Lesson 4 Worksheet 103 and 104	
Distributive Property **2 Days**				Simplify algebraic expressions using the distributive property.	BrainPOP Video: Distributive Property White Board Activity with DP Worksheet Quizizz: Distributive Property		Quizizz Results Quiz
Solve Multi-Step Equations **1 Day**	C.C.2.2.8.B.3	identity null set	How many possible solutions are there to a	Solve algebraic equations with variables on the same side, on	White Board Activity or	Glencoe Math Course 3 Chapter 2 Lesson 5	White Board Assessment

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			linear equation in one variable?	different sides,and involving the distributive property.	Pass the Marker with Skills Practice Worksheet	White Boards	
Chapter Review/Test 3 Days					BINGO Review	BINGO Board Google Slide Review Packet Random Number Generator	Test
Exploring the Coordinate Plane and Graphing Points 1 Day				Identify parts of the coordinate plane (x-axis, y-axis, and the origin) and the ordered pair (x-coordinate and y-coordinate). Identify the coordinates of a point on the coordinate plane. Graph an ordered pair on the coordinate plane.	Math Playground: Space Graph Rescue Mission BrainPOP Video: Coordinate Plane Coordinate Plane Notes	Math Playground Desmos Polygraph: Points	Math Playground Assessment
Lesson Introduction 2 Days				Add and subtract integers WITHOUT a calculator. Multiply and divide integers WITHOUT a calculator.	Student Built Glossary BrainPOP Video: Adding and Subtracting Integers Fluency Practice Worksheet DeltaMath Assignment	Fluency Practice Worksheet DeltaMath	Fluency Practice Worksheet Assessment DeltaMath Assignment
Constant Rate of Change 1 Day	C.C.2.2.8.B.2	constant rate of change	How can you use a table to determine if there is a proportional	Identify proportional and nonproportional linear relationships	Real World Link Page 171	Glencoe Math Course 3 Chapter 3 Lesson 1	

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		linear relationship	relationship between two quantities?	by finding a constant rate of change.			
Slope **3 Days**	C.C.2.2.8.B.2	rise run slope	In any linear relationship, why is the slope always the same?	Use tables, graphs, and the slope formula to find the slope of a line.	Row Races or Quizizz: Slope Formula	Glencoe Math Course 3 Chapter 3 Lesson 2 Worksheet for Slope Formula Game	Quiz
Equations in *y* = *mx* Form **1 Day**	C.C.2.2.8.B.2	constant of proportionality constant of variation direct variation	What is the relationship among the unit rate, slope, and constant rate of change of a proportional linear relationship?	Use direct variation to solve problems.	Concept Map	Glencoe Math Course 3 Chapter 3 Lesson 3	
Slope-Intercept Form **4 Days**	C.C.2.2.8.B.2	slope-intercept form *y*-intercept	How does the *y*-intercept appear in these three representations: table, equation, and graph?	Graph linear equations in slope-intercept form using an x/y table. Graph linear equations using the slope and y-intercept.	BrainPOP Video: Graphing Linear Equations BrainPOP Video: Slope and Intercept Family of Graphs Discovery Activity Discovery Ed Video Slope-Intercept Form Foldable	Glencoe Math Course 3 Chapter 3 Lesson 4 Graphing a Line Using an x/y table Worksheet Slope-Intercept Form Foldable	Graphing a Line Using an x/y table Worksheet Quiz
Graphing Linear Equations Kahoot Day					Kahoot: Graphing Linear Equations	Worksheet 149	Kahoot Results
Solve Systems of Equations by Graphing	C.C.2.2.8.B.3	systems of equations	How can you use a graph to solve a	Solve systems of linear equations by graphing.		Glencoe Math Course 3 Chapter 3	

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2 Days			system of equations?			Lesson 7	
Solve Systems of Equations Algebraically 3 Days	C.C.2.2.8.B.3		How can you solve a system of equations?	Solve systems of linear equations by substituting answer choices.	Pass the Marker	Glencoe Math Course 3 Chapter 3 Lesson 8	Quiz
System of Equations Word Problems 2 Days				Write and solve a system of equations from a word problem.	Matching Partner Activity Kahoot: Graphing Systems and Systems Word Problems	Glencoe Math Course 3 Chapter 3 Lesson 8	Kahoot Results
Systems of Equations Extra Graphing Day					Graphing Systems of Equations Packet		
Chapter Review/Test 2 Days					Brain Bowl Review		Test

Chapter 2: Total Days = 15 (recommended 13)
Chapter 3: Total Days = 23 (recommended 22)

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Unit:	**Three – Functions**
Big Ideas:	Representing Relations and Functions/Distinguishing Between Linear and Non-Linear Functions
Unit Essential Questions:	How can you find and use patterns to model real-world situations?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
Represent Relationships 1 Day	C.C.2.2.8.B.2	linear equation	How can you use a graph to write an equation?	Translate tables and graphs into linear equations.	Student Built Glossary	Glencoe Math Course 3 Chapter 4 Lesson 1	
Relations 1 Day	C.C.2.2.8.C.1	domain range relation	How do tables and graphs represent relations?	Represent relations using tables and graphs.	Kahoot: Linear Relations	Glencoe Math Course 3 Chapter 4 Lesson 2	Kahoot Results
Functions 2 Day	C.C.2.2.8.C.1	dependent variable function function table independent variable	How does the domain affect the range in a function?	Find function values and complete function tables.	Is this a Function Video for the Vertical Line Test Quizizz: Identify functions/domain/range	Glencoe Math Course 3 Chapter 4 Lesson 3 ConnectEd Algebra: Is this a Function Video Quizizz	Quiz
Linear Functions 1 Days	C.C.2.2.8.B.2; C.C.2.2.8.C.1	continuous data discrete data linear function	How can functions be used to solve real-world situations?	Represent linear functions using tables and graphs.		Glencoe Math Course 3 Chapter 4 Lesson 4	

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Compare Properties of Functions/ Construct Functions 1 Day	C.C.2.2.8.C.1		What are the advantages and disadvantages to representing a function as an equation instead of a graph?	Compare properties of functions represented in different ways. Find and interpret the rate of change and initial value of a function.		Glencoe Math Course 3 Chapter 4 Lesson 5 and 6	
Linear and Nonlinear Functions 2 Days	C.C.2.2.8.C.2	nonlinear function	How can you use a table or a graph to determine if a function is linear or nonlinear?	Determine whether a function is linear or nonlinear.	Jamboard Questions Linear/Non-Linear Google Drawing Card Sort	Glencoe Math Course 3 Chapter 4 Lesson 7	Quiz
Chapter Review/Test 2 Days					Kahoot: Chapter 4 Review Packet Quizlet Vocab	Review Packet Kahoot	Test

Total Days = 10 (recommended 21)

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Unit:	**Unit Four - Geometry**
Big Ideas:	Triangles and Pythagorean Theorem/Transformations/Congruence and Similarity/Volume
Unit Essential Questions:	How can you use different measurements to solve real-life problems?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
Applying Formulas		Area Circumference Volume	How do formulas help us to understand correct units.	Find the area of various polygons. Find the area and circumference of circles. Find the volume of a rectangular prism.	Google Slides Review Kami Assignment Practice Kahoot: Area of Polygons, Circumference and Area, Volume	PSSA Formula Sheet for Grades 6 and 7 Kami Assignment Kahoot	Kahoot Results
The Pythagorean Theorem **2 Days**	C.C.2.3.8.A.3	Converse hypotenuse legs Pythagorean Theorem	What is the relationship among the legs and the hypotenuse of a right triangle?	Use the Pythagorean Theorem to determine whether or not a triangle is a right triangle. Use the Pythagorean Theorem to find a missing side of a right triangle.	BrainPOP Video: Pythagorean Theorem Notes	Glencoe Math Course 3 Chapter 5 Lesson 5	Worksheet Check for Understanding
Use the Pythagorean Theorem **2 Days**	C.C.2.3.8.A.3		How do you solve a right triangle?	Solve problems using the Pythagorean Theorem.	Baseball and House Jamboard Examples	Glencoe Math Course 3 Chapter 5 Lesson 6 Jamboards	

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				Draw a picture to solve word problems.			
Distance on the Coordinate Plane **1 Day**	C.C.2.3.8.A.3	Distance	How do you find the distance between two points on the Coordinate Plane?	Find the distance between two points on the coordinate plane by applying the Pythagorean Theorem.	Jamboards	Glencoe Math Course 3 Chapter 5 Lesson 7 Jamboards	
Pythagorean Theorem Kahoot Day	C.C.2.3.8.A.3				Decoder Worksheet Bell Ringer Kahoot: PSSA Review: Pythagorean Theorem	Worksheets Kahoot	Kahoot Results
Chapter 5 Quiz **1 Day**	C.C.2.3.8.A.3						Quiz
Volume of Cylinders **1 Day**	C.C.2.3.8.A.1	composite solids cylinder polyhedron volume	How is the formula for the volume of a cylinder similar to the formula for the volume of a rectangular prism?	Find the volume of cylinders. Apply dimensional analysis to word problems. Find the volume of composite solids.	BrainPOP video	Glencoe Math Course 3 Chapter 8 Lesson 1	
Volume of Cones **1 Day**	C.C.2.3.8.A.1	cone	What would have a greater effect on the volume of a cone: doubling its radius or doubling its height? Explain.	Find the volume of cones. Apply dimensional analysis to word problems. Find the volume of composite solids.		Glencoe Math Course 3 Chapter 8 Lesson 2	
Volume of Spheres **1 Day**	C.C.2.3.8.A.1	hemisphere sphere	*True* or *false*? The volume of a sphere is two-thirds the volume of a cylinder with the	Find the volume of spheres and hemispheres.		Glencoe Math Course 3 Chapter 8 Lesson 3	

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			same radius *r* and height of 2*r.* Explain your reasoning.	Apply dimensional analysis to word problems.			
Changes in Dimensions (volume only) 1 Day	C.C.2.3.8.A.1	similar solids	How is the volume of a prism affected when its dimensions are tripled?	Solve problems involving volume of similar solids.	Discovery Activity	Glencoe Math Course 3 Chapter 8 Lesson 6	
Chapter 8 Quiz 1 Day							Quiz
Chapter ⅝ Kahoot and Quizizz Review Day	C.C.2.3.8.A.3 C.C.2.3.8.A.1						Kahoot and Quizizz Results
Chapter ⅝ Review/Test 2 Days	C.C.2.3.8.A.3 C.C.2.3.8.A.1				Brain Bowl Review Quizlet Vocab Review	Review Packet	Test
Chapter Launch 1 Day	See below	See below	What are transformations on the Coordinate Plane?	Identify and apply flips, slides, and turns.	BrainPOP Video Student Built Glossary Mathplayground games		
Translations 1 Day	C.C.2.3.8.A.2	congruent image preimage transformation translation	How are figures translated on the coordinate plane?	Graph translations on the coordinate plane.	Pass the Marker	Glencoe Math Course 3 Chapter 6 Lesson 1	
Reflections 1 Day	C.C.2.3.8.A.2	line of reflection reflection	How can you determine the coordinates of a figure after a reflection over either axis?	Graph reflections on the coordinate plane.		Glencoe Math Course 3 Chapter 6 Lesson 2	

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Quiz **1 Day**	C.C.2.3.8.A.2				Review Worksksheet		Quiz
Rotations **1 Day**	C.C.2.3.8.A.2	center of rotation rotation rotational symmetry	What is the difference between rotating a figure about a given point that is a vertex and rotating the same figure about the origin if the rotation is less than 360°?	Graph rotations on the coordinate plane.	Rotation Video Plate activity	Glencoe Math Course 3 Chapter 6 Lesson 3	
Congruence and Transformations **2 Days**	C.C.2.3.8.A.2	composition of transformations	Why do translations, reflections, and rotations create congruent images?	Use a series of transformations to create congruent figures.	Foldable Personal Tutor Videos	Glencoe Math Course 3 Chapter 7 Lesson 1	
Quiz **0.5 Day**							Quiz
Congruence **1.5 Days**	C.C.2.3.8.A.2	corresponding parts	How can the coordinate plane help you determine that corresponding sides are congruent?	Write congruence statements for congruent figures. Identify series of transformations.	Kahoot Personal Tutor Videos	Glencoe Math Course 3 Chapter 7 Lesson 2	Kahoot Results
Chapter Review/Test **2 Days**					Blooket or Buzzer Review	Review Packet Additional Packet if needed	Test
Dilations **1 Day**	C.C.2.3.8.A.2	dilation	How are dilations similar to scale drawings?	Use scale factors to graph dilations.	Pupil Demo Video Transformation Golf Game	Glencoe Math Course 3 Chapter 6 Lesson 4	
Similarity and Transformations **1.5 Days**	C.C.2.3.8.A.2	similar	What is the difference between using transformations to create similar figures versus using transformations to	Use transformations to create similar figures.		Glencoe Math Course 3 Chapter 7 Lesson 3 GeoBoard	

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			create congruent figures?				
Quiz **0.5 Day**							Quiz
Proportions **1 Day**				Solve proportions using cross products.	Nearpod Decoder Worksheets	Glencoe Math Course 3 Chapter 7 Lesson 4	Canvas Quiz
Similar Triangles and Indirect Measurement **1 Day**	C.C.2.3.8.A.2 C.C.2.3.8.B.2	Indirect measurement	How can you determine congruence and similarity?	Solve problems involving similar triangles.	Brain Pop	Glencoe Math Course 3 Chapter 7 Lesson 5	
Slope and Similar Triangles **1 Day**	C.C.2.3.8.B.2			Relate the slope of a line to similar triangles.	Partner Work	Glencoe Math Course 3 Chapter 7 Lesson 6	
Quizizz **1 Day**				Solve problems using indirect measurement and similar figures.			Quizizz Results
Quiz **1 Day**							Quiz
Area and Perimeter of Similar Figures **1 Day**				Find the relationship between perimeters and areas of similar figures.		Glencoe Math Course 3 Chapter 7 Lesson 7	
Chapter Review/Test **2 Days**					Blooket with Review	Review Packet	Test

Chapter 5/8: Total Days = 16 (recommended 30)
Chapter 6/7 Rigid Transformations: Total Days = 11 Days
Chapter 6/7 Similarity and Non-Rigid Transformations: Total Days = 11 (recommended 26 for Chapter 6 and 7 altogether)

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Unit:	**Five – Statistics and Probability**
Big Ideas:	Analyzing Bivariate Data
Unit Essential Questions:	How are patterns used when comparing two quantities?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
Scatter Plots **1.5 Days**	C.C.2.4.8.B.1; C.C.2.4.8.B.2	bivariate data scatter plot	What are the inferences that can be drawn from sets of data points having a positive association and a negative association?	Construct and make conjectures about scatter plots.	BrainPOP	Glencoe Math Course 3 Chapter 9 Lesson 1	
Lines of Best Fit **1.5 Days**	C.C.2.4.8.B.2	line of best fit	Why do we estimate a line of best fit for a scatter plot?	Draw lines of best fit and use them to make predictions about data.	Nearpod on Scatter Plots and Lines of Best Fit	Glencoe Math Course 3 Chapter 9 Lesson 2	
Two-Way Tables **2 Days**	C.C.2.4.8.B.1	relative frequency two-way table	How is a two-way table used when determining possible associations between two different categories from the same sample group?	Construct and interpret two-way tables.	Personal Tutor Videos Venn Diagrams	Glencoe Math Course 3 Chapter 9 Lesson 3	
Chapter Review/Test **2 Days**					Jeopardy Review	Review Packet	Test

Total Days = 7 (recommended 14)

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Unit:	**PSSA Review Days**						
Big Ideas:	Various						
Unit Essential Questions:	same as above						
Concept & Pacing	**New Emphasis (Pa Core Standard)**	**Key Vocabulary**	**Essential Questions**	**Competencies (skills, knowledge, abilities)**	**Mini-Lessons/ Activities**	**Instructional Materials (In addition to Textbook and Calculator)**	**Assessments**
Four Modules (timeline varies depending on the year)	all listed above	same as above	same as above	same as above	Real Number & Functions ● Carousel ● Real Number Task Cards ● Decoder Worksheets in Kami ● Function Card Sort ● Nonlinear/Linear Card Sort ● Interpreting Slopes and Intercepts Maze ● Rate of Change Scavenger Hunt ● Comparing Linear Functions ● Graphing Stories and Situations ● Slope Circle Foldable ● Graphic Organizer Slope Exponents & Equations ● Exponent Mad Lib ● Exponent Coloring Sheet ● Decoder Worksheets in Kami	Teacher Pay Teacher Activities	Quizizz Reviews

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					● Variables on Both Sides of the Equation Story Puzzle ● Systems of Equations Card Sort ● Whack a Mole Systems of Equation ● Zombi Systems of Equation ● Exponent Foldable Geometry ● Pythagorean Theorem Match ● Volume Maze ● Volume Coloring Sheet ● Transformation Math Lib ● Transformation Scavenger Hunt ● Rotation Maze ● Reflection Card Sort Statistics ● Two-Way Table Walk-Around ● Scatterplot Walk-Around ● Two-Way Table Coloring Sheet ● Math Mugshot: Scatterplots, Functions, & Slope		

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Unit:	**Road Trip Project**
Big Ideas:	Budgeting and Presenting
Unit Essential Questions:	How can you budget for a road trip?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/ Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
States and Capitals **1 Day**	Geography 7.1.8.B		Which States have you visited? What state capitals do you know? How many states can you locate on a map?	Explain and locate places and regions as defined by physical and human features.	Bell Ringer: States Visited	Canvas Kahoot	Name That State Canvas Quiz State Capital Kahoots
Choosing Your Destination **1 Day**	Geography 7.1.8.B		What state would you like to visit and why?	Explain and locate places and regions as defined by physical and human features. Problem Solving	Choosing Your Destination Activity Concept Map: Brainstorm Expenses	Canvas Google Jamboard	Canvas Quiz Jamboard

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Road Trip Research Several Days	Computer and Information Technologies 15.4.8.G Geography 7.3.8.A	National Average Sum Formula	How do you budget expenses for a road trip? How do you use formulas in a spreadsheet? How do you create a presentation in Google Slides?	Explain the human characteristics of places and regions. Use dimensional analysis to convert units.	Google Slides - Road Trip Presentation Google Sheets - Budget Sheet Car Expenses Food Expenses	Canvas Google Slides Google Sheets Books from the Library Road Trip Websites Google Maps	Presentation Budget Sheet Formulas Car Expense Canvas Quiz Pie Graph

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Unit:	**Additional Lessons if time remains: Inequalities Module**
Big Ideas:	Solving Inequalities: One-Step, Two-Step, and Graphing
Unit Essential Questions:	How can you use numbers and symbols to represent mathematical ideas?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Competencies (skills, knowledge, abilities)	Mini-Lessons/Activities	Instructional Materials (In addition to Textbook and Calculator)	Assessments
Graph Inequalities 1 Day	CC.2.2.7.B.3	Open Circle Closed Circle	Graphing inequalities	Graph inequalities with less than, greater than, less than or equal to, and greater than or equal to. Rewrite inequalities so the variable is on the left.	BrainPOP Pass the Marker	Decoder Worksheets	
Solve Inequalities by Addition or Subtraction 1 Day	CC.2.2.7.B.3	Addition Property of Inequality inequality Subtraction Property of Inequality	Solve inequalities using addition and subtraction. Graph the solutions.	Solve inequalities using addition and subtraction. Graph the solutions.	Whiteboard Problems	Decoder Worksheets	
Solve Inequalities by Multiplication or Division 2 Days	CC.2.2.7.B.3	Division Property of Inequality Multiplication Property of Inequality	When do you not reverse the inequality symbol when solving an inequality?	Solve inequalities using multiplication and division. Graph the solutions.	Multiplying and Dividing by Negative Numbers Discovery Activity Pass the Marker	Decoder Worksheets	Kahoot Results Quizizz Results