Mathletics

Georgia Mathematics Standards

Activities

Grades 7-8

September 2023

Mathletics

Mathletics

Georgia Mathematics Standards

Activities

September 2023

Grade 7

1 Numerical Reasoning

Course Topic	Activities Title
REVIEW 7.NR.1 Add & subtract rational numbers	Integers on a Number Line
	Ordering Integers (Number Line)
	Comparing Integers
	Add Like Fractions
	Add Like Mixed Numbers
	Subtract Like Fractions

1.1 Solve relevant, mathematical problems, including multi-step problems, involving the four operations with rational numbers and quantities in any form (integers, percentages, fractions, and decimal numbers).

7.NR.1.1 Show that a number and its opposite have a sum of 0 (are additive inverses). Describe situations in which opposite quantities combine to make 0.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.NR.1.2 Show and explain p + q as the number located a distance |q| from p, in the positive or negative direction, depending on whether q is positive or negative. Interpret sums of rational numbers by describing applicable situations.	
Course Topic	**Activities Title**
7.NR.1 Add & subtract rational numbers	Add Integers
	Adding Integers: Positive, Negative or Zero
	Subtract Integers
	Integers: Add and Subtract
	Negative or Positive?
	More with Integers

7.NR.1.3 Represent addition and subtraction with rational numbers on a horizontal or a vertical number line diagram to solve authentic problems.	
Course Topic	**Activities Title**
7.NR.1 Add & subtract rational numbers	Add Unlike Fractions
	Add Mixed Numbers: Signs Can Differ
	Subtract Unlike Fractions
	Subtract Mixed Numbers: Signs Differ
	Subtract Negative Mixed Numbers

7.NR.1.4 Show and explain subtraction of rational numbers as adding the additive inverse, p – q = p + (–q). Show that the distance between two rational numbers on the number line is the absolute value of their difference and apply this principle in contextual situations.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.NR.1.5 Apply properties of operations, including part-whole reasoning, as strategies to add and subtract rational numbers.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.NR.1.6 Make sense of multiplication of rational numbers using realistic applications.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.NR.1.7 Show and explain that integers can be divided, assuming the divisor is not zero, and every quotient of integers is a rational number.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.NR.1.8 Represent the multiplication and division of integers using a variety of strategies and interpret products and quotients of rational numbers by describing them based on the relevant situation.	
Course Topic	**Activities Title**
7.NR.1 Multiply & divide rational numbers	Integers: Multiplication and Division
	Multiplying and Dividing Integers
	Integers: Order of Operations (PEDMAS)
	Integers: Operations Order

7.NR.1.9 Apply properties of operations as strategies to solve multiplication and division problems involving rational numbers represented in an applicable scenario.	
Course Topic	**Activities Title**
7.NR.1 Multiply & divide rational numbers	Multiply Two Fractions 2
	Divide Fractions by Fractions 2
	Divide Mixed Numbers with Signs

7.NR.1.10 Convert rational numbers between forms to include fractions, decimal numbers and percentages, using understanding of the part divided by the whole. Know that the decimal form of a rational number terminates in 0s or eventually repeats.	
Course Topic	**Activities Title**
7.NR.1 Convert between fractions, decimals & percentages	Fractions to Decimals
	Decimals to Fractions 1
	Mixed to Improper Fractions
	Improper Fraction to Mixed Numeral
	Percents to Fractions
	Fractions to Percentages (Non-Calculator)
	Mixed decimal, percentage and fraction conversions
	Decimal to Percentage
	Percents and Decimals

7.NR.1.11 Solve multi-step, contextual problems involving rational numbers, converting between forms as appropriate, and assessing the reasonableness of answers using mental computation and estimation strategies.	
Course Topic	**Activities Title**
7.NR.1 Contextual problems with rational numbers	Fraction Word Problems
	More Fraction Problems
	Percentage Word Problems

2 Patterning & Algebraic Reasoning

Course Topic	Activities Title
REVIEW 7.PAR.2 Expand & factorise expressions	Expanding Brackets
	Factorising Expressions
	Simplifying Expressions

2.1 Use properties of operations, generate equivalent expressions and interpret the expressions to explain relevant situations.

7.PAR.2.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	
Course Topic	**Activities Title**
7.PAR.2 Expand & factorise expressions	Using the Distributive Property
	Expand then Simplify
	Factorising

7.PAR.2.2 Rewrite an expression in different forms from a contextual problem to clarify the problem and show how the quantities in it are related.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

Course Topic	Activities Title
REVIEW 7.PAR.3 Equations & Inequalities	Writing Equations
	I am Thinking of a Number!
	Equations to Solve Problems
	Solve Equations: Add, Subtract 1
	Solve Equations: Multiply, Divide 1
	Inequalities on a Number Line: Mixed Basics

2.2 Represent authentic situations using equations and inequalities with variables; solve equations and inequalities symbolically, using the properties of equality.

7.PAR.3.1 Construct algebraic equations to solve practical problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Interpret the solution based on the situation.	
Course Topic	**Activities Title**
7.PAR.3 Equations & Inequalities	Write an Equation: Word Problems
	Solve Equations: Add, Subtract 2
	Solve Equations: Multiply, Divide 2

	Solve Multi-Step Equations
	Solving Simple Equations

7.PAR.3.2 Construct algebraic inequalities to solve problems, leading to inequalities of the form $px + q > r$, $px + q < r$, $px + q \leq r$, or $px + q \geq r$, where p, q, and r are specific rational numbers. Graph and interpret the solution based on the realistic situation that the inequalities represent.	
Course Topic	**Activities Title**
7.PAR.3 Equations & Inequalities	Inequalities on a Number Line: Basics
	Solving Inequalities 2
	Solve One-Step Inequalities 1
	Solve One-Step Inequalities 2

Course Topic	**Activities Title**
REVIEW 7.PAR.4 Rates, Ratios & Proportions	Ratios
	Equivalent Ratios
	Ratio Word Problems
	Word Problems: Ratio
	Solve Proportions
	Rate Word Problems
	Calculating Percentages 1
	Percentage of an amount using fractions (<100%)
	Solve Percent Equations

2.3 Recognize proportional relationships in relevant, mathematical problems; represent, solve, and explain these relationships with tables, graphs, and equations.

7.PAR.4.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units presented in realistic problems.	
Course Topic	**Activities Title**
7.PAR.4 Rates, Ratios & Proportions	Rates

7.PAR.4.2 Determine the unit rate (constant of proportionality) in tables, graphs (1, r), equations, diagrams, and verbal descriptions of proportional relationships to solve realistic problems.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.PAR.4.3 Determine whether two quantities presented in authentic problems are in a proportional relationship.	
Course Topic	**Activities Title**
7.PAR.4 Rates, Ratios & Proportions	Average Speed
	Distance Travelled
	Time Taken

7.PAR.4.4 Identify, represent, and use proportional relationships.	
Course Topic	**Activities Title**
7.PAR.4 Rates, Ratios & Proportions	y=ax

7.PAR.4.5 Use context to explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate.	
Course Topic	**Activities Title**
7.PAR.4 Rates, Ratios & Proportions	Conversion Graphs

7.PAR.4.6 Solve everyday problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	
Course Topic	**Activities Title**
7.PAR.4 Rates, Ratios & Proportions	Scale Factor
	Scale Measurement
	Floor Plans

7.PAR.4.7 Use similar triangles to explain why the slope, m, is the same between any two distinct points on a nonvertical line in the coordinate plane.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.PAR.4.8 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	
Course Topic	**Activities Title**
	Slope of a Line

7.PAR.4 Rates, Ratios & Proportions	Equation of a Line 1

Course Topic	Activities Title
REVIEW 7.PAR.4 Percentage problems	Best Buy
	Percent Increase and Decrease
	Solve Percent Equations

7.PAR.4.9

Use proportional relationships to solve multi-step ratio and percent problems presented in applicable situations.

Course Topic	Activities Title
7.PAR.4 Percentage problems	Commission
	Successive Discounts
	Profit and Loss
	Simple Interest
	Percentage Error
	Percentage Word Problems

7.PAR.4.10

Predict characteristics of a population by examining the characteristics of a representative sample. Recognize the potential limitations and scope of the sample to the population.

Course Topic	Activities Title
Teacher directed	Teacher directed

7.PAR.4.11

Analyze sampling methods and conclude that random sampling produces and supports valid inferences.

Course Topic	Activities Title
7.PAR.4.11 Data sampling	Data sampling
	Methods of Data Sampling

7.PAR.4.12

Use data from repeated random samples to evaluate how much a sample mean is expected to vary from a population mean. Simulate multiple samples of the same size.

Course Topic	Activities Title
Teacher directed	Teacher directed

3 Geometric & Spatial Reasoning

Course Topic	Activities Title
REVIEW 7.GSR.5 Angle relationships	What Type of Angle 2?
	Classifying Angles

3.1 Solve practical problems involving angle measurement, circles, area of circles, surface area of prisms and cylinders, and volume of cylinders and prisms composed of cubes and right prisms.

7.GSR.5.1 Measure angles in whole nonstandard units.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.GSR.5.2 Measure angles in whole number degrees using a protractor.	
Course Topic	**Activities Title**
7.GSR.5 Angle relationships	Measuring Angles
	Estimating Angles

7.GSR.5.3 Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve equations for an unknown angle in a figure.	
Course Topic	**Activities Title**
7.GSR.5 Angle relationships	Equal, Complement, or Supplement?
	Vertically Opposite: Value of x
	Vertically Opposite Angles: Unknown Values

Course Topic	Activities Title
REVIEW 7.GSR.5 Circumference & area of circles	Circle Terms

7.GSR.5.4 Explore and describe the relationship between pi, radius, diameter, circumference, and area of a circle to derive the formulas for the circumference and area of a circle.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.GSR.5.5 Given the formula for the area and circumference of a circle, solve problems that exist in everyday life.	
Course Topic	**Activities Title**
7.GSR.5 Circumference & area of circles	Calculate Circumference of Circles
	Area: Circles 1
	Area: Circles 2
	Perimeter and Circles
	Area: Annulus

Course Topic	**Activities Title**
REVIEW 7.GSR.5 Surface area & volume including cylinders	Nets
	Surface Area: Cuboids
	Surface Area: Rectangular Prisms
	Surface Area: Rectangular Prisms 1
	Surface Area: Triangular Prisms 1
	Volume of Rectangular Prisms 1

7.GSR.5.6 Solve realistic problems involving surface area of right prisms and cylinders.	
Course Topic	**Activities Title**
7.GSR.5 Surface area & volume including cylinders	Surface Area: Cylinders

7.GSR.5.7 Describe the two-dimensional figures (cross sections) that result from slicing three-dimensional figures, as in the plane sections of right rectangular prisms, right rectangular pyramids, cones, cylinders, and spheres.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.GSR.5.8 Explore volume as a measurable attribute of cylinders and right prisms. Find the volume of these geometric figures using concrete problems.	
Course Topic	**Activities Title**
7.GSR.5 Surface area & volume including cylinders	Volume: Cuboid 2
	Volume: Rectangular Prisms 2
	Volume of Triangular prisms
	Volume: Prisms
	Volume: Cylinders

4 Probability Reasoning

4.1 Using mathematical reasoning, investigate chance processes and develop, evaluate, and use probability models to find probabilities of simple events presented in authentic situations.

7.PR.6.1 Represent the probability of a chance event as a number between 0 and 1 that expresses the likelihood of the event occurring. Describe that a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	
Course Topic	**Activities Title**
7.PR.6 Probability	Chance Dial
	Probability Scale

7.PR.6.2 Approximate the probability of a chance event by collecting data on an event and observing its long-run relative frequency will approach the theoretical probability.	
Course Topic	**Activities Title**
7.PR.6 Probability	Relative Frequency
	Simple Probability

7.PR.6.3 Develop a probability model and use it to find probabilities of simple events. Compare experimental and theoretical probabilities of events. If the probabilities are not close, explain possible sources of the discrepancy	
Course Topic	**Activities Title**
7.PR.6 Probability	Find the Probability
	Introductory Probability
	Dice and Coins

7.PR.6.4 Develop a uniform probability model by assigning equal probability to all outcomes and use the model to determine probabilities of events.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

7.PR.6.5 Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	
Course Topic	**Activities Title**
7.PR.6 Probability	Probability Tables

	Probability With Replacement
	Probability Without Replacement

Course Topic	Activities Title
REVIEW 7.PR.6 Data analysis	Dot Plots
	Histograms
	Understanding Box-and-Whisker Plots
	Mean from Frequency Table
	Median from Frequency Table
	Mode from Frequency Table
	Calculating Interquartile Range
	Data extremes and Range

7.PR.6.6

Use appropriate graphical displays and numerical summaries from data distributions with categorical or quantitative (numerical) variables as probability models to draw informal inferences about two samples or populations.

Course Topic	Activities Title
7.PR.6 Data analysis	Divided Bar Graphs
	Double Stem and Leaf Plots
	Box-and-Whisker Plots 2
	Data Extremes and Range
	Which Measure of Central Tendency?

Grade 8

1 Numerical Reasoning

Course Topic	Activities Title
REVIEW 8.NR.1 Rational numbers	Exponents
	Powers of Integers

1.1 Solve problems involving irrational numbers and rational approximations of irrational numbers to explain realistic applications.

8.NR.1.1 Distinguish between rational and irrational numbers using decimal expansion. Convert a decimal expansion which repeats eventually into a rational number.	
Course Topic	**Activities Title**
8.NR.1 Rational numbers	Fraction to Terminating Decimal
	Recurring Decimals
	Irrational Numbers

8.NR.1.2 Approximate irrational numbers to compare the size of irrational numbers, locate them approximately on a number line, and estimate the value of expressions.	
Course Topic	**Activities Title**
8.NR.1 Rational numbers	Estimating Square Roots

1.2 Solve problems involving radicals and integer exponents including relevant application situations; apply place value understanding with scientific notation and use scientific notation to explain real phenomena.

8.NR.2.1 Apply the properties of integer exponents to generate equivalent numerical expressions.	
Course Topic	**Activities Title**
8.NR.2 Exponent rules	Exponent Notation
	Exponent Notation and Algebra
	Properties of Exponents
	Exponent Laws with Brackets
	The Zero Exponent
	Negative Exponents
	Integer Exponents
	Multiplication with Exponents
	Simplifying with Exponent Laws 1

	Exponent Laws and Algebra
	Exponent Form to Numbers

8.NR.2.2 Use square root and cube root symbols to represent solutions to equations. Recognize that x2 = p (where p is a positive rational number and |x| ≤ 25) has two solutions and x3 = p (where p is a negative or positive rational number and |x| ≤ 10) has one solution. Evaluate square roots of perfect squares ≤ 625 and cube roots of perfect cubes ≥ -1000 and ≤ 1000.	
Course Topic	**Activities Title**
8.NR.2 Square/cube roots & scientific notation	Square Roots
	Square Roots 1
	Square and Cube Roots

8.NR.2.3 Use numbers expressed in scientific notation to estimate very large or very small quantities, and to express how many times as much one is than the other.	
Course Topic	**Activities Title**
8.NR.2 Square/cube roots & scientific notation	Scientific Notation
	Scientific Notation 1
	Scientific Notation 2
	Scientific Notation to Decimal
	Ordering Scientific Notation

8.NR.2.4 Add, subtract, multiply and divide numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Interpret scientific notation that has been generated by technology (e.g., calculators or online technology tools).	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

2 Patterning & Algebraic Reasoning

Course Topic	Activities Title
REVIEW 8.PAR.3 Equations & inequalities	Solve Multi-Step Equations
	Solving Simple Equations
	Graphing Inequalities 2
	Solve One-Step Inequalities 1
	Solve One-Step Inequalities 2

2.1 Create and interpret expressions within relevant situations. Create, interpret, and solve linear equations and linear inequalities in one variable to model and explain real phenomena.

8.PAR.3.1 Interpret expressions and parts of an expression, in context, by utilizing formulas or expressions with multiple terms and/or factors.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.PAR.3.2 Describe and solve linear equations in one variable with one solution (x = a), infinitely many solutions (a = a), or no solutions (a = b). Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers).	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.PAR.3.3 Create and solve linear equations and inequalities in one variable within a relevant application.	
Course Topic	**Activities Title**
8.PAR.3 Equations & inequalities	Equations with Grouping Symbols
	Equations with Fractions
	Equations with Decimals
	Equations to Solve Problems
	Equations: Variables, Both Sides
	Solving More Equations

8.PAR.3.4 Using algebraic properties and the properties of real numbers, justify the steps of a one-solution equation or inequality.

Course Topic	Activities Title
Teacher directed	Teacher directed

8.PAR.3.5 Solve linear equations and inequalities in one variable with coefficients represented by letters and explain the solution based on the contextual, mathematical situation.	
Course Topic	**Activities Title**
8.PAR.3 Equations & inequalities	Solve Two-Step Inequalities
	Solving Inequalities 3
	Graphing Inequalities 3

8.PAR.3.6 Use algebraic reasoning to fluently manipulate linear and literal equations expressed in various forms to solve relevant, mathematical problems.	
Course Topic	**Activities Title**
8.PAR.3 Equations & inequalities	Rearranging the Equation

Course Topic	Activities Title
REVIEW 8.PAR.4 Linear relationships	y=ax
	Slope of a Line
	Equation of a Line 1

2.2 Show and explain the connections between proportional and non-proportional relationships, lines, and linear equations; create and interpret graphical mathematical models and use the graphical, mathematical model to explain real phenomena represented in the graph.

8.PAR.4.1 Use the equation y = mx (proportional) for a line through the origin to derive the equation y = mx + b (non-proportional) for a line intersecting the vertical axis at b.	
Course Topic	**Activities Title**
8.PAR.4 Linear relationships	Determining a Rule for a Line

8.PAR.4.2 Show and explain that the graph of an equation representing an applicable situation in two variables is the set of all its solutions plotted in the coordinate plane.	
Course Topic	**Activities Title**
8.PAR.4 Linear relationships	Which Straight Line?
	Equation from Point and Gradient
	Modeling Linear Relationships

3 Functional & Graphical Reasoning

3.1 Describe the properties of functions to define, evaluate, and compare relationships, and use functions and graphs of functions to model and explain real phenomena.

8.FGR.5.1 Show and explain that a function is a rule that assigns to each input exactly one output.	
Course Topic	**Activities Title**
8.FGR.5 Functions & graphs	Function Rules and Tables
	Find the Function Rule

8.FGR.5.2 Within realistic situations, identify and describe examples of functions that are linear or nonlinear. Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	
Course Topic	**Activities Title**
8.FGR.5 Functions & graphs	Travel Graphs
	Identifying Graphs
	Vertical Line Test

8.FGR.5.3 Relate the domain of a linear function to its graph and where applicable to the quantitative relationship it describes.	
Course Topic	**Activities Title**
8.FGR.5 Functions & graphs	Domain

8.FGR.5.4 Compare properties (rate of change and initial value) of two functions used to model an authentic situation each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	
Course Topic	**Activities Title**
8.FGR.5 Functions & graphs	Intercepts

8.FGR.5.5 Write and explain the equations y = mx + b (slope-intercept form), Ax + By = C (standard form), and (y - y1) = m(x-x1) (point-slope form) as defining a linear function whose graph is a straight line to reveal and explain different properties of the function.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.5.6 Write a linear function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.5.7 Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x,y) values, including reading these from a table or from a graph.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.5.8 Explain the meaning of the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.5.9 Graph and analyze linear functions expressed in various algebraic forms and show key characteristics of the graph to describe applicable situations.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

3.2 Solve practical, linear problems involving situations using bivariate quantitative data.

8.FGR.6.1 Show that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, visually fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line of best fit.	
Course Topic	**Activities Title**
8.FGR.6 Bivariate data	Scatter Plots

8.FGR.6.2 Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercepts.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.6.3 Explain the meaning of the predicted slope (rate of change) and the predicted intercept (constant term) of a linear model in the context of the data	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.6.4 Use appropriate graphical displays from data distributions involving lines of best fit to draw informal inferences and answer the statistical investigative question posed in an unbiased statistical study."	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

3.3 Justify and use various strategies to solve systems of linear equations to model and explain realistic phenomena.

8.FGR.7.1 Interpret and solve relevant mathematical problems leading to two linear equations in two variables.	
Course Topic	**Activities Title**
8.FGR.7 Simultaneous equations	Solve Systems by Graphing
	Simultaneous Linear Equations
	Linear Modeling

8.FGR.7.2 Show and explain that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because the points of intersection satisfy both equations simultaneously.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.7.3 Approximate solutions of two linear equations in two variables by graphing the equations and solving simple cases by inspection.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

8.FGR.7.4 Analyze and solve systems of two linear equations in two variables algebraically to find exact solutions.	
Course Topic	**Activities Title**
8.FGR.7 Simultaneous equations	Simultaneous Equations 1
	Simultaneous Equations 2

8.FGR.7.5 Create and compare the equations of two lines that are either parallel to each other, perpendicular to each other, or neither parallel nor perpendicular.	
Course Topic	**Activities Title**
8.FGR.7 Simultaneous equations	Are they Parallel?

4 Geometric & Spatial Reasoning

4.1 Solve geometric problems involving the Pythagorean Theorem and the volume of geometric figures to explain real phenomena.

8.GSR.8.1 Explain a proof of the Pythagorean Theorem and its converse using visual models.	
Course Topic	**Activities Title**
8.GSR.8 Pythagoras	Pythagorean Triads

8.GSR.8.2 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles within authentic, mathematical problems in two and three dimensions	
Course Topic	**Activities Title**
8.GSR.8 Pythagoras	Pythagorean Theorem
	Pythagoras: Find a Short Side (integers only)
	Pythagoras: Find a Short Side (decimal values)
	Pythagoras: Find a Short Side (rounding needed)
	Pythagoras' Theorem
	Find Slant Height

8.GSR.8.3 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system in practical, mathematical problems.	
Course Topic	**Activities Title**
8.GSR.8 Pythagoras	Distance Between Two Points

Course Topic	**Activities Title**
REVIEW 8.GSR.8 Volume	Volume: Rectangular Prisms 2
	Volume of Triangular prisms
	Volume: Prisms

8.GSR.8.4 Apply the formulas for the volume of cones, cylinders, and spheres and use them to solve in relevant problems.	
Course Topic	**Activities Title**
8.GSR.8 Volume	Volume: Cylinders
	Volume: Cones
	Volume: Spheres

Mathletics

For more information about Mathletics,
contact our friendly team.

www.mathletics.com/contact

3P Learning