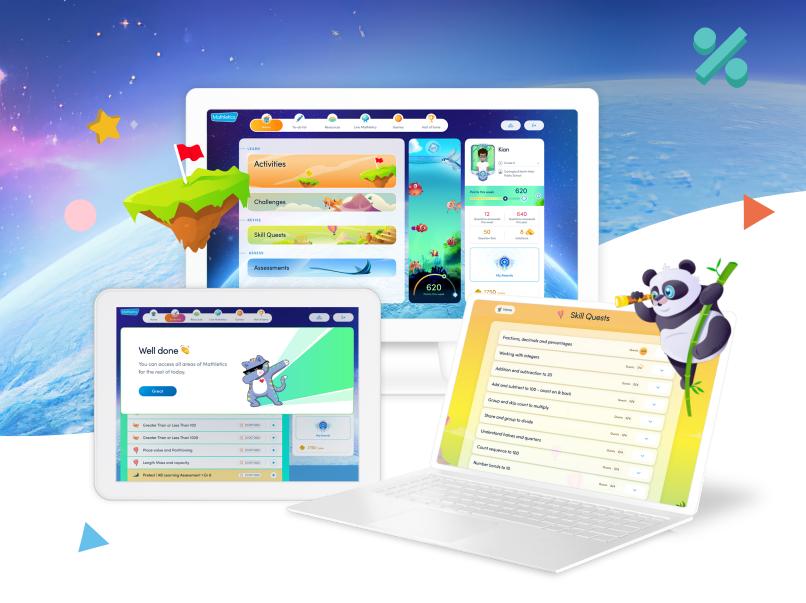# Mathletics
Florida Program of Studies
Activities

Grades 7-8
September 2023

Mathletics

Mathletics

Florida Program of Studies
Classic Courses
September, 2023

Grade 7

Number Sense and Operations

MA.7.NSO.1 Rewrite numbers in equivalent forms.

MA.7.NSO.1.1	
Know and apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions, limited to whole-number exponents and rational number bases.	
Course Topic	**Activities Title**
NSO: Laws of exponents	Exponent Notation
	Simplifying with Exponent Laws 1
	Properties of Exponents
	Powers of Integers
	The Zero Exponent
	Exponent Form to Numbers

Course Topic	**Activities Title**
REVIEW: Converting fractions, decimals & percentages	Shading Equivalent Fractions
	The Equivalent Fraction
	Simplify Fractions
	Fractional to Terminating Decimal
	Convert Decimals to Fractions 2
	Percents to Fractions
	Fractions to Percentages (Non-Calculator)

MA.7.NSO.1.2	
Rewrite rational numbers in different but equivalent forms including fractions, mixed numbers, repeating decimals and percentages to solve mathematical and real-world problems.	
Course Topic	**Activities Title**
NSO: Converting fractions, decimals & percentages	Mixed to Improper Fractions
	Improper Fraction to Mixed Numeral
	Recurring Decimals
	Percentages to Fractions (with and without simplification)
	Common Fractions as Percentages
	Fractions to Percentages (Calculator)
	Percentages greater than 100% to Mixed Numerals
	Decimals to Percentages
	Percentages to Decimals

MA.7.NSO.2 Add, subtract, multiply and divide rational numbers.

MA.7.NSO.2.1	
Solve mathematical problems using multi-step order of operations with rational numbers including grouping symbols, whole-number exponents and absolute value.	
Course Topic	**Activities Title**
NSO: Order of operations	Operations Order 1 (PEDMAS)
	Order of Operations 2 (PEDMAS)
	Integers: Order of Operations (PEDMAS)
	Integers: Operations Order
	Identifying errors in applying the order of operations
	Absolute Value

Course Topic	**Activities Title**
REVIEW: Operations with fractions	Comparing Fractions with Signs
	Add Like Fractions
	Subtract Like Fractions
	Add Like Mixed Numbers
	Unit Fractions
	Multiply Fraction by Whole Number
	Estimate Products with Fractions
	Using Reciprocals
	Divide by a Unit Fraction
	Divide Whole Number by Fraction
	Divide Fractions Visual Model
REVIEW: Operations with decimals	Adding Decimals
	Decimal Complements
	Subtract Decimals 2
	Adding and Subtracting Decimals
	Estimate Decimal Sums 1
	Estimate Decimal Differences 1
	Multiply Decimals: 10, 100, 1000
	Divide by Powers of 10
	Multiply Decimal by Whole Number
	Divide Decimal by Whole Number

MA.7.NSO.2.2	
Add, subtract, multiply and divide rational numbers with procedural fluency.	
Course Topic	**Activities Title**
NSO: Operations with fractions	Add Unlike Fractions
	Subtract Unlike Fractions
	Add Mixed Numbers: Same Sign
	Add Mixed Numbers: Signs Can Differ
	Add Unlike Mixed Numbers
	Subtract Mixed Numbers: Signs Differ

	Subtract Negative Mixed Numbers
	Multiply Fraction by Fraction
	Multiply Two Fractions 1
	Multiply Two Fractions 2
	Multiplying Fractions
	Multiply Mixed Numbers
	Divide Fractions by Fractions 1
	Divide Fractions by Fractions 2
	Dividing Fractions
	Divide Mixed Numbers
	Divide Mixed Numbers with Signs
	Operations with Fractions
NSO: Operations with decimals	Decimal by decimal 1
	Multiply Decimals 1
	Divide Decimal by Decimal
	Estimate Decimal Operations

MA.7.NSO.2.3	
Solve real-world problems involving any of the four operations with rational numbers.	
Course Topic	**Activities Title**
NSO: Operations with fractions	Fraction Word Problems
	More Fraction Problems

Algebraic Reasoning

Course Topic	Activities Title
REVIEW: Expressions & equations	Multiplication Properties
	Arithmetic Laws
	Writing Algebraic Expressions
	Simple Substitution 2
	Simple Substitution 1
	Pattern Rules and Tables
	Find the Pattern Rule
	Missing Numbers: Variables
	Solve Equations: Multiply, Divide 1
	Write an Equation: Word Problems

MA.7.AR.1 Rewrite algebraic expressions in equivalent forms.

MA.7.AR.1.1	
Apply properties of operations to add and subtract linear expressions with rational coefficients.	
Course Topic	**Activities Title**
AR: Expressions & equations	Recognising Like Terms
	Like Terms: Add, Subtract

MA.7.AR.1.2	
Determine whether two linear expressions are equivalent.	
Course Topic	**Activities Title**
AR: Expressions & equations	Using the Distributive Property
	Expanding Brackets
	Expand then Simplify
	Factorising Expressions
	Factorising

MA.7.AR.2 Write and solve equations and inequalities in one variable.

MA.7.AR.2.1	
Write and solve one-step inequalities in one variable within a mathematical context and represent solutions algebraically or graphically.	
Course Topic	**Activities Title**
AR: Expressions & equations	Solve One-Step Inequalities 1
	Solve One-Step Inequalities 2
	Solving Inequalities 1
	Graphing Inequalities on a Number Line

MA.7.AR.2.2	
Write and solve two-step equations in one variable within a mathematical or real-world context, where all terms are rational numbers.	
Course Topic	**Activities Title**
AR: Expressions & equations	I am Thinking of a Number!
	Solve Equations: Add, Subtract 1
	Solve Equations: Add, Subtract 2
	Solve Equations: Multiply, Divide 2
	Solving Simple Equations
	Equations to Solve Problems

Course Topic	**Activities Title**
REVIEW: Percentages & proportional reasoning	Percent of a Number (Mental)
	Percentage of an amount using fractions (<100%)
	Percentage of an amount using decimals (calculator)
	Quantities to Percentages (no units)
	Quantities to Percentages (with units)
	Simplify Ratios: 2 Whole Numbers
	Simplify Ratios: 3 Whole Numbers
	Simplify Ratios: Decimals
	Simplify Ratios: Fractions
	Simplify Ratios: Mixed Numbers
	Equivalent Ratios
	Ratios
	Dividing a Quantity Into a Ratio

MA.7.AR.3 Use percentages and proportional reasoning to solve problems.

MA.7.AR.3.1	
Apply previous understanding of percentages and ratios to solve multi-step real-world percent problems.	
Course Topic	**Activities Title**
AR: Percentages & proportional reasoning	Percentage Word Problems
	Percentage Composition/What percentage?
	Percent Increase and Decrease
	Solve Percent Equations
	Wages and Salaries
	Working Overtime
	Special Allowances
	Piecework and Royalties
	Commission
	Successive Discounts
	Profit and Loss
	Purchase Options
	Simple Interest
	Percentage Error
	Error in Measurement

MA.7.AR.3.2	
Apply previous understanding of ratios to solve real-world problems involving proportions.	
Course Topic	**Activities Title**
AR: Percentages & proportional reasoning	Word Problems: Ratio
	Ratio and Proportion

MA.7.AR.3.3	
Solve mathematical and real-world problems involving the conversion of units across different measurement systems.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.7.AR.4 Analyze and represent two-variable proportional relationships.

MA.7.AR.4.1	
Determine whether two quantities have a proportional relationship by examining a table, graph or written description.	
Course Topic	**Activities Title**
AR: Proportional relationships	Solve Proportions

MA.7.AR.4.2	
Determine the constant of proportionality within a mathematical or real-world context given a table, graph or written description of a proportional relationship.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.7.AR.4.3	
Given a mathematical or real-world context, graph proportional relationships from a table, equation or a written description.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.7.AR.4.4	
Given any representation of a proportional relationship, translate the representation to a written description, table or equation.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.7.AR.4.5	
Solve real-world problems involving proportional relationships.	
Course Topic	**Activities Title**
AR: Proportional relationships	Rate Word Problems
	Rates Calculations
	Rates
	Converting Rates
	Distance Travelled
	Average Speed
	Time Taken
	Travel Graphs
	Best Buy

Geometric Reasoning

Course Topic	Activities Title
REVIEW: 2D & 3D figures including circular shapes	Properties of Solids
	Perimeter: Squares and Rectangles
	Perimeter: Composite Shapes
	Area of Squares and Rectangles
	Area of Triangles
	Area: Right Angled Triangles
	Area of Quadrilaterals
	Calculate Area of Shapes (inches, feet, yards)
	Surface Area: Rectangular Prisms 1
	Surface Area: Square Pyramids
	Surface Area: Triangular Prisms 1
	Volume of Solids and Prisms - 1cm³ blocks
	Volume: Prisms
	Volume of Rectangular Prisms 1
	Volume: Rectangular Prisms 2
	Volume of Triangular Prisms
	Volume: Triangular Prisms 1

MA.7.GR.1 Solve problems involving two-dimensional figures, including circles.

MA.7.GR.1.1	
Apply formulas to find the areas of trapezoids, parallelograms and rhombi.	
Course Topic	**Activities Title**
GR: 2D & 3D figures including circular shapes	Area: Parallelograms

MA.7.GR.1.2	
Solve mathematical or real-world problems involving the area of polygons or composite figures by decomposing them into triangles or quadrilaterals.	
Course Topic	**Activities Title**
GR: 2D & 3D figures including circular shapes	Area: Compound Figures
	Perimeter, Area, Dimension Change

MA.7.GR.1.3	
Explore the proportional relationship between circumferences and diameters of circles. Apply a formula for the circumference of a circle to solve mathematical and real-world problems.	
Course Topic	**Activities Title**
GR: 2D & 3D figures including circular shapes	Calculate Circumference of Circles
	Circumference: Circles

MA.7.GR.1.4
Explore and apply a formula to find the area of a circle to solve mathematical and real-world problems.

Course Topic	Activities Title
GR: 2D & 3D figures including circular shapes	Area: Circles 1
	Area: Circles 2
	Area: Annulus

MA.7.GR.1.5
Solve mathematical and real-world problems involving dimensions and areas of geometric figures, including scale drawings and scale factors.

Course Topic	Activities Title
GR: 2D & 3D figures including circular shapes	Scale Factor
	Scale
	Scale Measurement
	Floor Plans

MA.7.GR.2 Solve problems involving three-dimensional figures, including right circular cylinders.

MA.7.GR.2.1
Given a mathematical or real-world context, find the surface area of a right circular cylinder using the figure's net.

Course Topic	Activities Title
GR: 2D & 3D figures including circular shapes	Surface Area: Cylinders

MA.7.GR.2.2
Solve real-world problems involving surface area of right circular cylinders.

Course Topic	Activities Title
Teacher directed	Teacher directed

MA.7.GR.2.3
Solve mathematical and real-world problems involving volume of right circular cylinders.

Course Topic	Activities Title
GR: 2D & 3D figures including circular shapes	Volume: Cylinders

Data Analysis and Probability

Course Topic	Activities Title
REVIEW: Numerical & catergorical data	Mean
	Mean from Frequency Table
	Median
	Median from Frequency Table
	Mode from Frequency Table
	Calculating Interquartile Range
	Understanding Box-and-Whisker Plots
	Box-and-Whisker Plots 1
	Box-and-Whisker Plots 2
	Line Plots

MA.7.DP.1 Represent and interpret numerical and categorical data.

MA.7.DP.1.1 Determine an appropriate measure of center or measure of variation to summarize numerical data, represented numerically or graphically, taking into consideration the context and any outliers.	
Course Topic	Activities Title
DP: Numerical & catergorical data	Median from Stem and Leaf Plot
	Mode from Stem and Leaf Plot
	Stem and Leaf Plots with Range
	Data Extremes and Range
	Double Stem and Leaf Plots

MA.7.DP.1.4 Use proportional reasoning to construct, display and interpret data in circle graphs.	
Course Topic	Activities Title
DP: Numerical & catergorical data	Circle Graphs
	Sector Graph Calculations

MA.7.DP.1.5 Given a real-world numerical or categorical data set, choose and create an appropriate graphical representation.	
Course Topic	Activities Title
DP: Numerical & catergorical data	Dot Plots
	Divided Bar Graphs
	Histograms
	Histograms for Grouped Data
	Stem and Leaf Plots: Concept

MA.7.DP.2 Develop an understanding of probability. Find and compare experimental and theoretical probabilities.

MA.7.DP.2.1	
Determine the sample space for a simple experiment.	
Course Topic	**Activities Title**
DP: Probability of events	Possible Outcomes
	Tree Diagram
	Counting Principle
	Counting Techniques 1

MA.7.DP.2.2	
Given the probability of a chance event, interpret the likelihood of it occurring. Compare the probabilities of chance events.	
Course Topic	**Activities Title**
DP: Probability of events	Chance Dial
	Most Likely and Least Likely
	Probability Scale
	Introductory probability
	Simple Probability

MA.7.DP.2.3	
Find the theoretical probability of an event related to a simple experiment.	
Course Topic	**Activities Title**
DP: Probability of events	Dice and coins
	Find the Probability
	Probability With Replacement
	Probability Tables
	Tree Diagrams

MA.7.DP.2.4	
Use a simulation of a simple experiment to find experimental probabilities and compare them to theoretical probabilities.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

Grade 8

Number Sense and Operations

Course Topic	Activities Title
REVIEW: Rational & irrational numbers	Square Roots 1
	Square Roots
	Square and Cube Roots
	Index Notation/Exponent notation
	Properties of Exponents
	Simplifying with Exponent Laws 1
	Simplifying with Exponential Laws 2
	The Zero Exponent

MA.8.NSO.1 Solve problems involving rational numbers, including numbers in scientific notation, and extend the understanding of rational numbers to irrational numbers.

MA.8.NSO.1.1	
Extend previous understanding of rational numbers to define irrational numbers within the real number system. Locate an approximate value of a numerical expression involving irrational numbers on a number line.	
Course Topic	Activities Title
NSO: Rational & irrational numbers	Estimate Square Roots
	Estimating Cube Roots
	Irrational Numbers

MA.8.NSO.1.2	
Plot, order and compare rational and irrational numbers, represented in various forms.	
Course Topic	Activities Title
Teacher directed	Teacher directed

MA.8.NSO.1.3	
Extend previous understanding of the Laws of Exponents to include integer exponents. Apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions, limited to integer exponents and rational number bases, with procedural fluency.	
Course Topic	Activities Title
NSO: Rational & irrational numbers	Fractional Exponents
	Negative Indices
	Integer Exponents

MA.8.NSO.1.4

Express numbers in scientific notation to represent and approximate very large or very small quantities. Determine how many times larger or smaller one number is compared to a second number.

Course Topic	Activities Title
NSO: Scientific notation	Scientific Notation 1
	Scientific Notation
	Scientific Notation 2
	Scientific Notation to Decimal
	Ordering Scientific Notation

MA.8.NSO.1.5

Add, subtract, multiply and divide numbers expressed in scientific notation with procedural fluency.

Course Topic	Activities Title
Teacher directed	Teacher directed

MA.8.NSO.1.6

Solve real-world problems involving operations with numbers expressed in scientific notation.

Course Topic	Activities Title
Teacher directed	Teacher directed

MA.8.NSO.1.7

Solve multi-step mathematical and real-world problems involving the order of operations with rational numbers including exponents and radicals.

Course Topic	Activities Title
Teacher directed	Teacher directed

Algebraic Reasoning

Course Topic	Activities Title
REVIEW: Equivalent algebraic expressions	Recognising Like Terms
	Like Terms: Add, Subtract
	Simplifying Expressions
	Algebraic Multiplication

MA.8.AR.1 Generate equivalent algebraic expressions.

MA.8.AR.1.1 Apply the Laws of Exponents to generate equivalent algebraic expressions, limited to integer exponents and monomial bases.	
Course Topic	**Activities Title**
AR: Equivalent algebraic expressions	Exponent Notation and Algebra
	Multiplication with exponents
	Exponent Laws and Algebra
	Exponent Laws with Brackets
	Zero Exponent and Algebra

MA.8.AR.1.2 Apply properties of operations to multiply two linear expressions with rational coefficients.	
Course Topic	**Activities Title**
AR: Equivalent algebraic expressions	Using the Distributive Property
	Expanding with Negatives
	Expanding Brackets
	Expand then Simplify

MA.8.AR.1.3 Rewrite the sum of two algebraic expressions having a common monomial factor as a common factor multiplied by the sum of two algebraic expressions.	
Course Topic	**Activities Title**
AR: Equivalent algebraic expressions	Factorising Expressions
	Factorising
	Factorising with Indices
	Factorising with Negatives

Course Topic	Activities Title
REVIEW: Solving equations	Solving Simple Equations
	Solve One-Step Equations
	Solving More Equations
	Solve Equations: Add, Subtract 1

	Solve Equations: Add, Subtract 2
	Solve Equations: Multiply, Divide 1
	Solve Equations: Multiply, Divide 2
	Solve One-Step Inequalities 1
	Solve One-Step Inequalities 2
	Inequalities on a Number Line: Mixed Basics
	Inequalities on a Number Line: Basics
	Graphing Inequalities 2

MA.8.AR.2 Solve multi-step one-variable equations and inequalities.

MA.8.AR.2.1	
Solve multi-step linear equations in one variable, with rational number coefficients. Include equations with variables on both sides.	
Course Topic	**Activities Title**
AR: Solving equations	Solve Multi-Step Equations
	Equations with Grouping Symbols
	Equations with Decimals
	Equations: Variables, Both Sides
	Equations with Fractions
	Equations with Fractions 2
	Equations to Solve Problems

MA.8.AR.2.2	
Solve two-step linear inequalities in one variable and represent solutions algebraically and graphically.	
Course Topic	**Activities Title**
AR: Solving equations	Solving Inequalities 1
	Solving Inequalities 2
	Solving Inequalities 3
	Graphing Inequalities on a Number Line
	Graphing Inequalities 3

MA.8.AR.2.3	
Given an equation in the form of $x^2 = p$ and $x^3 = q$, where p is a whole number and q is an integer, determine the real solutions.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

Course Topic	**Activities Title**
REVIEW: Proportional relationships	Solve Proportions
	Rate Word Problems
	Distance Travelled
	Average Speed
	Time Taken

	Travel Graphs

MA.8.AR.3 Extend understanding of proportional relationships to two-variable linear equations.

MA.8.AR.3.1	
Determine if a linear relationship is also a proportional relationship.	
Course Topic	**Activities Title**
AR: Proportional relationships	Direct Variation
	Indirect Variation

MA.8.AR.3.2	
Given a table, graph or written description of a linear relationship, determine the slope.	
Course Topic	**Activities Title**
AR: Proportional relationships	Gradient
	Slope of a Line

MA.8.AR.3.3	
Given a table, graph or written description of a linear relationship, write an equation in slope-intercept form.	
Course Topic	**Activities Title**
AR: Proportional relationships	Equation of a Line 1
	Equation of a Line 2
	Equation of a Line 3
	Equation from Point and Gradient
	$y = ax$
	Which Straight Line?

MA.8.AR.3.4	
Given a mathematical or real-world context, graph a two-variable linear equation from a written description, a table or an equation in slope-intercept form.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.8.AR.3.5	
Given a real-world context, determine and interpret the slope and y- intercept of a two-variable linear equation from a written description, a table, a graph or an equation in slope-intercept form.	
Course Topic	**Activities Title**
AR: Proportional relationships	Conversion Graphs
	Modeling Linear Relationships

MA.8.AR.4 Develop an understanding of two-variable systems of equations.

MA.8.AR.4.1	
Given a system of two linear equations and a specified set of possible solutions, determine which ordered pairs satisfy the system of linear equations.	
Course Topic	**Activities Title**
AR: Simulataneous equations	Simultaneous Equations 1
	Simultaneous Equations 2

MA.8.AR.4.2	
Given a system of two linear equations represented graphically on the same coordinate plane, determine whether there is one solution, no solution or infinitely many solutions.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.8.AR.4.3	
Given a mathematical or real-world context, solve systems of two linear equations by graphing.	
Course Topic	**Activities Title**
AR: Simultaneous equations	Simultaneous Linear Equations

Functions

MA.8.F.1 Define, evaluate and compare functions.

MA.8.F.1.1	
Given a set of ordered pairs, a table, a graph or mapping diagram, determine whether the relationship is a function. Identify the domain and range of the relation.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.8.F.1.2	
Given a function defined by a graph or an equation, determine whether the function is a linear function. Given an input-output table, determine whether it could represent a linear function.	
Course Topic	**Activities Title**
F: Functions	Find the Function Rule
	Determining a Rule for a Line
	Function Rules and Tables
	Pattern Rules and Tables
	Graphing from a Table of Values
	Reading Values from a Line

MA.8.F.1.3	
Analyze a real-world written description or graphical representation of a functional relationship between two quantities and identify where the function is increasing, decreasing or constant.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

Geometric Reasoning

MA.8.GR.1 Develop an understanding of the Pythagorean Theorem and angle relationships involving triangles.

MA.8.GR.1.1	
Apply the Pythagorean Theorem to solve mathematical and real-world problems involving unknown side lengths in right triangles.	
Course Topic	**Activities Title**
GR: Pythagoras' theorem	Pythagorean Theorem
	Pythagorean Triads
	Hypotenuse of a Right Triangle
	Pythagoras: Find a Short Side (integers only)
	Pythagoras: Find a short side (rounding needed)
	Pythagoras: Find a Short Side (decimal values)
	Pythagoras and Perimeter

MA.8.GR.1.2	
Apply the Pythagorean Theorem to solve mathematical and real-world problems involving the distance between two points in a coordinate plane.	
Course Topic	**Activities Title**
GR: Pythagoras' theorem	Distance Between Two Points

MA.8.GR.1.3	
Use the Triangle Inequality Theorem to determine if a triangle can be formed from a given set of sides. Use the converse of the Pythagorean Theorem to determine if a right triangle can be formed from a given set of sides.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.8.GR.1.4	
Solve mathematical problems involving the relationships between supplementary, complementary, vertical or adjacent angles.	
Course Topic	**Activities Title**
GR: Angle relationships	Equal, Complementary or Supplementary Angles
	Complementary, Supplementary or Neither
	Vertically Opposite Angles: Unknown Values
	Vertically Opposite: Value of x

MA.8.GR.1.5	
Solve problems involving the relationships of interior and exterior angles of a triangle.	
Course Topic	**Activities Title**
GR: Angle relationships	Angle Sum of a Triangle
	Angle Measures in a Triangle
	Exterior Angles of a Triangle

MA.8.GR.1.6	
Develop and use formulas for the sums of the interior angles of regular polygons by decomposing them into triangles.	
Course Topic	**Activities Title**
GR: Angle relationships	Interior Angles

MA.8.GR.2 Understand similarity and congruence using models and transformations.

MA.8.GR.2.1	
Given a preimage and image generated by a single transformation, identify the transformation that describes the relationship.	
Course Topic	**Activities Title**
GR: Transformations & similar triangles	Transformations

MA.8.GR.2.2	
Given a preimage and image generated by a single dilation, identify the scale factor that describes the relationship.	
Course Topic	**Activities Title**
GR: Transformations & similar triangles	Scale Factor

MA.8.GR.2.3	
Describe and apply the effect of a single transformation on two-dimensional figures using coordinates and the coordinate plane.	
Course Topic	**Activities Title**
GR: Transformations & similar triangles	Transformations: Coordinate Plane
	Rotations: Coordinate Plane

MA.8.GR.2.4 Solve mathematical and real-world problems involving proportional relationships between similar triangles.	
Course Topic	**Activities Title**
GR: Transformations & similar triangles	Congruent Triangles
	Congruent Figures
	Congruent Figures: Find Values
	Similar Figures
	Similar triangles
	Using Similar Triangles 1
	Similar Figures 1
	Similarity Proofs

Data Analysis and Probability

MA.8.DP.1 Represent and investigate numerical bivariate data.

MA.8.DP.1.1	
Given a set of real-world bivariate numerical data, construct a scatter plot or a line graph as appropriate for the context.	
Course Topic	**Activities Title**
DP: Bivariate data	Data Analysis: Scatter Plots
	Scatter Plots

MA.8.DP.1.2	
Given a scatter plot within a real-world context, describe patterns of association.	
Course Topic	**Activities Title**
DP: Bivariate data	Correlation

MA.8.DP.1.3	
Given a scatter plot with a linear association, informally fit a straight line.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

Course Topic	**Activities Title**
REVIEW: Probability of repeated experiments	Simple Probability
	Introductory probability
	Find the Probability
	Probability Scale
	Probability Tables
	Two-Way Table Probability
	Dice and coins
	Tree Diagrams

MA.8.DP.2 Represent and find probabilities of repeated experiments.

MA.8.DP.2.1	
Determine the sample space for a repeated experiment.	
Course Topic	**Activities Title**
Teacher directed	Teacher directed

MA.8.DP.2.2	
Find the theoretical probability of an event related to a repeated experiment.	
Course Topic	**Activities Title**
DP: Probability of repeated experiments	Probability without Replacement
	Probability with Replacement
	Probability with Replacement 1

MA.8.DP.2.3	
Solve real-world problems involving probabilities related to single or repeated experiments, including making predictions based on theoretical probability.	
Course Topic	**Activities Title**
DP: Probability of repeated experiments	Relative Frequency

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3P Learning