Alignment Document
State of Maryland and Aventa Learning

Math 6

Strand	Common Curriculum Goal	Standard	Lesson Name
1.0 Students will algebraically represent, model, analyze, or solve mathematical or real-world problems involving patterns or functional relationships.	1.A.1 Identify, describe, extend, and create numeric patterns and functions	1.A.1.a Identify and describe sequences represented by a physical model or in a function table	
		1.A.1.b Interpret and write a rule for a one-operation (+, -, x, ÷) function table	
		1.A.1.c Complete a function table with a given two-operation rule	
	1.B.1 Write and evaluate expressions	1.B.1.a Write an algebraic expression to represent unknown quantities	
		1.B.1.b Evaluate an algebraic expression	Lesson 14: Adding and Subtracting Fractions
		1.B.1.c Evaluate numeric expressions using the order of operations	Lesson 17: Multiplying Fractions
		1.B.1.d Represent algebraic expressions using physical models, manipulatives, and drawings	
	1.B.2 Identify, write, solve, and apply equations and inequalities	1.B.2.a Identify and write equations and inequalities to represent relationships	
		1.B.2.b Determine the unknown in a linear equation	Lesson 14: Adding and Subtracting Fractions
		1.B.2.c Solve for the unknown in a one-step inequality	

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		1.B.2.d Identify or graph solutions of a one-step inequality on a number line	
		1.B.2.e Apply given formulas to a problem solving situation	Lesson 30: Perimeter and Area
	1.C.1 Locate points on a number line and in a coordinate plane	1.C.1.a Represent rational numbers on a number line	Lesson 27: Coordinate Geometry
		1.C.1.b Graph ordered pairs in a coordinate plane.	Lesson 27: Coordinate Geometry
		1.C.1.c Graph linear data from a function table	
	1.C.2 Analyze linear relationships	1.C.2.a Identify and describe the change represented in a graph	
		1.C.2.b Translate the graph of a linear relationship onto a table of values that illustrates the type of change	
2.0 Students will apply the properties of one-, two-, or three-dimensional geometric figures to describe, reason, or solve problems about shape, size, position, or motion of objects.	2.A.1 Analyze the properties of plane geometric figures	2.A.1.a Identify, describe, and label points, lines, rays, line segments, vertices, angles, and planes using correct symbolic notation	Lesson 23: Classify Lines Lesson 24: Classify and Measure Angles
		2.A.1.b Identify and describe line segments	Lesson 23: Classify Lines
		2.A.1.c Identify and describe the parts of a circle	Lesson 26: Circles
	2.A.2 Analyze geometric relationships	2.A.2.a Compare and classify triangles by sides	Lesson 25: Polygons

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Strand	Common Curriculum Goal	Standard	Lesson Name
		2.A.2.b Compare and classify triangles by angle measure	Lesson 25: Polygons
		2.A.2.c Determine a third angle measure of a triangle given two angle measures	Lesson 25: Polygons
		2.A.2.d Identify and compare the relationship between parts of a circle	Lesson 26: Circles
	2.C.1 Represent plane geometric figures	2.C.1.a Draw geometric figures using a variety of tools	Lesson 25: Polygons
		2.C.1.b Identify, describe, or draw a polygon	Lesson 25: Polygons
		2.C.1.c Identify or describe angle relationships	Lesson 24: Classify and Measure Angles
	2.D.1 Analyze congruent figures	2.D.1.a Identify and describe congruent polygons and their corresponding parts	Lesson 25: Polygons
	2.E.1 Analyze a transformation on a coordinate plane	2.E.1.a Plot the result of one transformation (translation, reflection, rotation) on a coordinate plane	
3.0 Students will identify attributes, units, or systems of measurements or apply a variety of techniques, formulas, tools or technology for determining measurements.	3.B.1 Measure in customary and metric units	3.B.1.a Select and use appropriate tools and units	Lesson 28: Metric Measurement (Length)
	3.B Measurement Tools	3.B.2 Measure angles in polygons	Lesson 24: Classify and Measure Angles Lesson 25: Polygons

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Strand	Common Curriculum Goal	Standard	Lesson Name
	3.C.1 Estimate and apply measurement formulas	3.C.1.a Estimate and determine the area of a polygon	Lesson 30: Perimeter and Area
		3.C.1.b Estimate and determine the volume of a rectangular prism	
		3.C.1.c Estimate and determine the area of a composite figure	Lesson 30: Perimeter and Area
		3.C.1.d Determine missing dimension of a quadrilateral given the perimeter length	Lesson 30: Perimeter and Area
		3.C.1.e Determine the missing dimension of rectangles	Lesson 30: Perimeter and Area
4.0 Students will collect, organize, display, analyze, or interpret data to make decisions or predictions.	4.A.1 Organize and display data	4.A.1.a Organize and display data to make frequency tables	Lesson 36: Problem Solve With Data
		4.A.1.b Organize and display data to make stem-and-leaf plots	Lesson 36: Problem Solve With Data
		4.A.1.c Organize and display data using a back-to-back stem-and-leaf plot	
	4.B.1 Analyze data	4.B.1.a Interpret frequency tables	Lesson 36: Problem Solve With Data
		4.B.1.b Read and analyze circle graphs	Lesson 36: Problem Solve With Data
		4.B.1.c Interpret data from a stem-and-leaf plot	Lesson 36: Problem Solve With Data
	4.B.2 Describe a set of data	4.B.2.a Apply measures of central tendency (mean, median, mode)	Lesson 35: Central Tendencies

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5.0 Students will use experimental methods or theoretical reasoning to determine probabilities to make predictions or solve problems about events whose outcomes involve random variation.	5.B.1 Determine the probability of one simple event comprised of equally likely outcomes	5.B.1.a Express the probability of an event as a fraction.	Lesson 32: Probability
		5.B.1.b Express the probability of an event as a decimal	Lesson 32: Probability
		5.B.1.c Express the probability of an event as a percent	Lesson 32: Probability
	5.C.1 Analyze the results of a probability experiment	5.C.1.a Make predictions and express the experimental probability as a fraction, a decimal, or a percent	Lesson 32: Probability
	5.C Experimental Probability	5.C.2 Conduct a probability experiment	Lesson 32: Probability
		5.C.3 Compare outcomes of theoretical probability with the results of experimental probability	Lesson 32: Probability
		5.C.4 Describe the difference between theoretical and experimental probability	

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Strand	Common Curriculum Goal	Standard	Lesson Name
6.0 Students will describe, represent, or apply numbers or their relationships or will estimate or compute using mental strategies, paper/pencil or technology.	6.A.1 Apply knowledge of rational numbers and place value	6.A.1.a Read, write, and represent whole numbers	Lesson 1: Comparing and Ordering Whole Numbers
		6.A.1.b Read, write, and represent integers	Lesson 1: Comparing and Ordering Whole Numbers
		6.A.1.c Identify and determine equivalent forms of fractions as decimals, as percents, and as ratios	Lesson 22: Connect Percents, Decimals and Fractions
		6.A.1.d Compare and order fractions, decimals alone or mixed together, with and without relational symbols (<, >, =)	Lesson 6: Comparing and Ordering Decimals
		6.A.1.e Compare and order integers	Lesson 1: Comparing and Ordering Whole Numbers
	6.B.1 Apply number relationships	6.B.1.a Determine prime factorizations for whole numbers and express them using exponential form	
	6.C.1 Analyze number relations and compute	6.C.1.a Add and subtract fractions and mixed numbers and express answers in simplest form	Lesson 14: Adding and Subtracting Fractions Lesson 16: Adding and Subtracting Mixed Numbers
		6.C.1.b Multiply fractions and mixed numbers and express in simplest form	Lesson 17: Multiplying Fractions

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Strand	Common Curriculum Goal	Standard	Lesson Name
		6.C.1.c Multiply decimals	Lesson 9: Multiplying Decimals
		6.C.1.d Divide decimals	Lesson 10: Dividing Decimals
		6.C.1.e Determine a percent of a whole number	Lesson 21: Introduction to Percents
		6.C.1.f Simplify numeric expressions using the properties of addition and multiplication	Lesson 4: Properties
	6.C.2 Estimation	6.C.2.a Determine the approximate products and quotients of decimals	Lesson 7: Estimating with Decimals
	6.C.3 Analyze ratios, proportions, and percents	6.C.3.a Represent ratios in a variety of forms	Lesson 19: Representing Ratios
		6.C.3.b Use ratios and unit rates to solve problems	Lesson 20: Rates and Proportions