

UNITS	STANDARDS	OBJECTIVES (What it looks like in the classroom) The learner will ...	NUMBER OF DAYS TAUGHT	DATE ASSESSED	ASSESSMENT TYPE	RESOURCES (Materials, web sites, auto-visual, print)	LEARNING ACTIVITIES AND VOCABULARY
Number Sense	8.1.1d Classifying Real Numbers	label a given number as natural, whole, integer, rational or irrational	5	Aug	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: real, rational, irrational, integer, whole, natural
	8.NS.A 1,2 Identifying rational/irrational numbers	whether a given number is rational or irrational	4	Aug	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.1.1a,b Compare & order real numbers	correctly order real numbers on a number line from least to greatest	2	Sept	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.1.3a,b,c,d,e Order of operations computation and proportions	Compute accurately with rational numbers using the order of operations Solve problems using proportions	10	Sept	Common Assessment Chapter 1 Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: Parentheses, exponents, multiplication, division, addition, subtraction, proportion, ratio, numerator, denominator, fraction bar
	8.1.4a Estimation methods & practices	Make reasonable estimates to compute solutions	5	Sept	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: rounding

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Expressions & Equations	8.EE.C.7,8 Solving equations & linear systems	Solve single & multi-step equations using algebraic methods Solve linear systems	10	Oct	Chapter 3 Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: equation, linear equation, system of equation
	8.3.3 Solving inequalities	Solve 2 step inequalities with rational numbers	10	Oct	Chapter 3 Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: inequality, linear inequality
	8.3.1b Describe relationships between expressions, equations, inequalities	Express tables, graphs and story problems as expressions, equations & inequalities	5	Nov	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.EE.A.1,2,3,4 Computing & expressing with radicals & integer exponents	Write equivalent positive exponents Compute square/cube root of numbers & estimation	10	Nov	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.EE.B.5,6 Connections between proportional relations & linear equations	Graph proportional relations and compare slope Write an equation given a graph	10	Nov May*	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: coordinate plane, slope

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Functions & Relations	8.F.A.1,2,3 Define, evaluate, & compare functions/relations	Define a function Compare properties of functions: graph table or words Interpret the equation of a graph	10	Dec	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: function, input, output, domain, range
	8.F.A.4,5 Use functions/relations to model problems	Build model graph, table or words Determine slope and initial value	4	Dec	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.3.2 Use models to conceptualize problems	Build model graph, table or words Determine slope and initial value	2	Dec	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	

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Geometry Concepts	8.G.A.1,2,3,4,5 Angle relations, transformations, dilations	Transformations: transfer, rotate, reflect Similarity of dilations	8	Jan	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: translations, rotations, reflections, dilations, similarity
	8.2.1c,d,e Angle relations in triangles & parallel lines	Name properties of parallel lines & angle relations Triangles interior angles	5	Jan	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: parallel lines, vertical angles, adjacent angles, supplementary, complementary, alt int./ext. corresponding etc.
	8.G.B.6,7,8 Pythagorean Theorem and Converse	Find missing sides of a triangle and solve problems Problem solving	6	Feb	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: hypotenuse, leg, square root
	8.2.5 Scale Factor to find missing length	Find missing sides of figures using proportions	4	Feb	Common Assessment Chapter 1 Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: scale factor
	8.2.2 Coordinate geometry & properties of rectangles/squares	Use properties of rectangles & squares in coordinate plane	4	Feb	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: rectangle, square

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Statistics & Probability	8.4.3 Compound probability & complementary	Compute independent probability & compound probability	10	Mar	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: probability, compound probability
	8.4.1d Central tendency	Compute Mean, Median Mode and determine best measure of Cent Tendency	5	Mar	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: mean, median, mode, range, box-and- whisker, central tendency
	8.4.1e Misrepresented data	Identify misrepresentation from a graph: pie chart & box plots	5	Mar	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	
	8.SP.A.1,2,3,4 Scatter plot, correlation, comparing data sets	Draw scatter plots Find a correlation for data and comparing different data sets	5	Apr May*	Chapter Test	Textbook, www.khanacademy.org , compass learning, iPad activities, in class games/activities	Vocab: scatter plot, correlation, negative correlation, positive correlation, no correlation