

8Th Grade Next Generation Math Standards Timeline: Ready Classroom 2020

Concepts	Unit	Focus Standards	Time Frame	Month
	DIAGNOSTIC TESTING		3 days	September
Lesson 0	Introduction to Ready Classroom		5 days	September
Lesson 1 Understand Rigid Transformations and their Properties	Unit 1: Geometric Figures: Rigid Transformations and Congruence	8.G.A.1 8.G.A.1a 8.G.A.1b 8.G.A.1c 8.G.A.2 8.G.A.3	3 days	September
Lesson 2 Work with Single Rigid Transformations in the Coordinate Plane			5 days	September/ October
Lesson 3 Work with Sequences of Transformations and Congruence			4 days	October
Math in Action and Unit Assessment: Rigid Transformations and Congruence			3 days	October
Lesson 4 Understand Dilations and Similarity	Unit 2: Geometric Figures: Transformations Similarity and Angle Relationships	8.G.A.2 8.G.A.3 8.G.A.4 8.G.A.5	3 days	October
Lesson 5 Perform and Describe Transformations Involving Dilations			4 days	October
Lesson 6 Describe Angle Relationships			4 days	October
Lesson 7 Describe Angle Relationships in Triangles			4 days	November
Math in Action and Unit Assessment: Add and Subtract Rational Numbers			3 days	November
Lesson 8 Graph Proportional Relationships and Define Slope	Unit 3: Linear Relationships	8.EE.B.5 8.EE.B.6 8.EE.C.7 8.EE.C.7a	4 days	November
Lesson 9 Derive and Graph Linear Equations in the Form $y=mx+b$			5 days	November
Lesson 10 Solve Linear Equations in One Variable			4 days	December

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Lesson 11 Determine the Number of Solutions to One-Variable Equations	Unit 3: Linear Relationships: Slope, Linear Equations and Systems	8.EE.C.7b 8.EE.C.8 8.EE.C.8a 8.EE.C.8b	4 days	December
Lesson 12 Understand Systems of Linear Equations in Two Variables			3 days	December
Lesson 13 Solve Systems of Linear Equations Algebraically			5 days	December
Lesson 14 Represent and Solve Problems with Systems of Linear Equations			4 days	January
Math in Action and Unit Assessment: Slope, Linear Equations and Systems			3 days	January
	DIAGNOSTIC TESTING		3 days	January
Lesson 15 Understand Functions	Unit 4: Functions: Linear and Nonlinear Relationships	8.F.A.1 8.F.A.2 8.F.A.3 8.F.B.4 8.F.B.5	3 days	January
Lesson 16 Use Functions to Model Linear Relationships			5 days	January
Lesson 17 Compare Different Representations of Functions			5 days	February
Lesson 18 Analyze Graphs of Functional Relationships Qualitatively			5 days	February
Math in Action and Unit Assessment: Linear and Non-Linear Relationships			3 days	February
Lesson 19 Apply Exponent Properties for Positive Integer Exponents	Unit 5: Integer Exponents: Properties and Scientific Notation	8.EE.A.1 8.EE.A.3 8.EE.A.4	4 days	February
Lesson 20 Apply Exponent Properties for All Integer Exponents			4 days	February March
Lesson 21 Express Numbers Using Integer Powers of 10			4 days	March
Lesson 22 Work With Scientific Notation			5 days	March

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Math in Action and Unit Assessment: Properties and Scientific Notation	Unit 5: (continued)		3 days	March
Lesson 23 Find Square Roots and Cube Roots to Solve Problems	Unit 6: Real Numbers: Rational numbers, Irrational numbers and the Pythagorean Theorem	8.EE.A.2 8.NS.A.1 8.NS.A.2 8.G.B.6 8.G.B.7 8.G.B.8 8.G.B.9	4 days	April
Lesson 24 Express Rational Numbers as Fractions and Decimals			3 days	April
Lesson 25 Find Rational Approximations of Irrational Numbers			4 days	April
Lesson 26 Understand the Pythagorean Theorem and its Converse			3 days	April
Lesson 27 Apply the Pythagorean Theorem			5 days	April
Lesson 28 Solve Problems with Volumes of Cylinders, Cones and Spheres			4 days	May
Math in Action and Unit Assessment: Rational Numbers, Irrational Numbers and the Pythagorean Theorem			3 days	May
	DIAGNOSTIC TESTING		3 days	May
Lesson 29 Analyze Scatter Plots and Fit a Linear Model to Data	Unit 7: Statistics: Two-Variable Data and fitting a Linear Model	8 SP.A.1 8 SP.A.2 8 SP.A.3 8 SP.A.4	5 days	May
Lesson 30 Write and Analyze an Equation for Fitting a Linear Model to Data			4 days	May
Lesson 31 Understand Two-Way Tables			3 days	May
Lesson 32 Construct and Interpret Two-Way Tables			4 days	June
Math in Action and Unit Assessment: Two-Variable Data and Fitting a Linear Model			3 days	June