

Accelerated Grades 7 and 8 Scope and Sequence

This Grade 7 sequence combines content from Grade 7, Volume 2 and Grade 8, Volumes 1 and 2.

KEY:

 = Lesson from Grade 7, Volume 2

 = Lesson from Grade 8, Volume 1

Bold black text = Content in the Major Work of the grade

 = Lesson from Grade 8, Volume 2

Blue text = Content in the Supporting/Additional Work of the grade

Unit/ Source	Title	Focus/Assessed Standard(s)	Days for Units and Lessons	Classroom Mathematics California Grade and Volume
Unit A—Geometry: Solids, Triangles, and Angles			15	
G7, V2: U6, L25	Solve Problems Involving Area and Surface Area	7.G.6	4	G7, V2
G7, V2: U6, L26	Solve Problems Involving Volume	7.G.6	3	G7, V2
G7, V2: U6, L27	Describe Plane Sections of Three-Dimensional Figures	7.G.3	1	G7, V2
G7, V2: U6, L28	Find Unknown Angle Measures	7.G.5	3	G7, V2
G7, V2: U6, L29	Draw Plane Figures with Given Conditions	7.G.2	3	G7, V2
Unit B—Geometric Figures: Rigid Transformations and Congruence			9	
G8, V1: U1, L1	Understand Rigid Transformations and Their Properties	8.G.1, 8.G.1a, 8.G.1b, 8.G.1c	1	G8, V1
G8, V1: U1, L2	Work with Single Rigid Transformations in the Coordinate Plane	8.G.3	4	G8, V1
G8, V1: U1, L3	Work with Sequences of Transformations and Congruence	8.G.2, 8.G.3	3	G8, V1
Unit C—Geometric Figures: Transformations, Similarity, and Angle Relationships			11	
G8, V1: U2, L4	Understand Dilations and Similarity	8.G.4	1	G8, V1
G8, V1: U2, L5	Perform and Describe Transformations Involving Dilations	8.G.3, 8.G.4	3	G8, V1
G8, V1: U2, L6	Describe Angle Relationships	8.G.5	3	G8, V1
G8, V1: U2, L7	Describe Angle Relationships in Triangles	8.G.5	3	G8, V1

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ACCELERATION STARTING IN GRADE 7, CONT'D.

Unit/ Source	Title	Focus/Assessed Standard(s)	Days for Units and Lessons	Classroom Mathematics California Grade and Volume
Unit D—Linear Relationships: Slope, Lines, and Systems of Linear Equations			18	
G8, V1: U3, L8	Graph Proportional Relationships and Define Slope	8.EE.5, 8.EE.6	3	G8, V1
G8, V1: U3, L9	Derive and Graph Linear Equations of the Form $y = mx + b$	8.EE.6	4	G8, V1
G8, V1: U3, L10	Solve Linear Equations in One Variable	8.EE.7, 8.EE.7b	2	G8, V1
G8, V1: U3, L11	Determine the Number of Solutions to One-Variable Equations	8.EE.7, 8.EE.7a	2	G8, V1
G8, V1: U3, L12	Understand Systems of Linear Equations in Two Variables	8.EE.8, 8.EE.8a, 8.EE.8b	1	G8, V1
G8, V1: U3, L13	Solve Systems of Linear Equations Algebraically	8.EE.8, 8.EE.8b	3	G8, V1
G8, V1: U3, L14	Represent and Solve Problems with Systems of Linear Equations	8.EE.8, 8.EE.8c	2	G8, V1
Unit E—Functions: Linear and Nonlinear Relationships			11	
G8, V1: U4, L15	Understand Functions	8.F.1, 8.F.3	1	G8, V1
G8, V1: U4, L16	Use Functions to Model Linear Relationships	8.F.4	3	G8, V1
G8, V1: U4, L17	Compare Different Representations of Functions	8.EE.5, 8.F.2	3	G8, V1
G8, V1: U4, L18	Analyze Functional Relationships Qualitatively	8.F.5	3	G8, V1
Unit F—Proportional Reasoning: Percents and Statistical Samples			15	
G7, V2: U5, L20	Solve Problems Involving Percents	7.RP.3	4	G7, V2
G7, V2: U5, L21	Solve Problems Involving Percent Change and Percent Error	7.RP.1	3	G7, V2
G7, V2: U5, L22	Understanding Random Sampling	7.SP.1	1	G7, V2
G7, V2: U5, L23	Reason About Random Samples	7.SP.2	3	G7, V2
G7, V2: U5, L24	Compare Populations	7.SP.3, 7.SP.4	3	G7, V2
Unit G—Integer Exponents: Properties and Scientific Notation			14	
G8, V2: U5, L19	Apply Exponent Properties for Positive Integer Exponents	8.EE.1	3	G8, V2
G8, V2: U5, L20	Apply Exponent Properties for All Integer Exponents	8.EE.1	3	G8, V2
G8, V2: U5, L21	Express Numbers Using Integer Powers of 10	8.EE.3	3	G8, V2
G8, V2: U5, L22	Work with Scientific Notation	8.EE.4	4	G8, V2

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ACCELERATION STARTING IN GRADE 7, CONT'D.

Unit/ Source	Title	Focus/Assessed Standard(s)	Days for Units and Lessons	<i>Classroom Mathematics California Grade and Volume</i>
Unit H—Real Numbers: Rational Numbers, Irrational Numbers, and the Pythagorean Theorem			17	
G8, V2: U6, L23	Find Square Roots and Cube Roots to Solve Problems	8.EE.2	3	G8, V2
G8, V2: U6, L24	Express Rational Numbers as Fractions and Decimals	8.NS.1	2	G8, V2
G8, V2: U6, L25	Find Rational Approximations of Irrational Numbers	8.NS.1, 8.NS.2, 8.EE.2	3	G8, V2
G8, V2: U6, L26	Understand the Pythagorean Theorem and Its Converse	8.G.6	1	G8, V2
G8, V2: U6, L27	Apply the Pythagorean Theorem	8.G.7, 8.G.8	4	G8, V2
G8, V2: U6, L28	Solve Problems with Volumes of Cylinders, Cones, and Spheres	8.G.9	3	G8, V2
Unit I—Probability: Theoretical Probability, Experimental Probability, and Compound Events			11	
G7, V2: U7, L30	Understand Probability	7.SP.5	1	G7, V2
G7, V2: U7, L31	Solve Problems Involving Experimental Probability	7.SP.6, 7.SP.7, 7.SP.7.b	3	G7, V2
G7, V2: U7, L32	Solve Problems Involving Probability Models	7.SP.7, 7.SP.7a, 7.SP.7b	3	G7, V2
G7, V2: U7, L33	Solve Problems Involving Compound Events	7.SP.8, 7.SP.8a, 7.SP.8b, 7.SP.8c	3	G7, V2
Unit J—Statistics: Two-Variable Data and Fitting a Linear Model			11	
G8, V2: U7, L29	Analyze Scatter Plots and Fit a Linear Model to Data	8.SP.1, 8.SP.2	3	G8, V2
G8, V2: U7, L30	Write and Analyze an Equation for Fitting a Linear Model to Data	8.SP.3	3	G8, V2
G8, V2: U7, L31	Understand Two-Way Tables	8.SP.4	1	G8, V2
G8, V2: U7, L32	Construct and Interpret Two-Way Tables	8.SP.4	3	G8, V2
TOTAL			132	