

West Contra Costa Unified School District
Suggested Pacing Guide for Pre-Algebra
Text: Prentice Hall Pre-Algebra California 2001

Number of Days	Topics: Content, Textbook Section, Assessments	CA Content Standards	Resources
15	Chapter 1a: Algebraic Expressions and Integers		
3	Lesson 1-2: The Order of Operations	AF 1.2	Order of Operations
2	Lesson 1-4: Integers and Absolute Value (Part 1: Comparing Integers) (Part 2: Finding Absolute Value)	NS 2.5	Number Line Worksheets
1	Lesson 1-5: Adding Integers (Part 1: Using Models to Add Integers)	NS 1.2	Integer Operations Adding/Subtracting – Models Worksheet Adding/Subtracting Integers Worksheet
2	Lesson 1-5: Adding Integers (Part 2: Using Rules to Add Integers)	NS 1.2	
2	Lesson 1-6: Subtracting Integers	NS 1.2	Integer Operations Adding/Subtracting Integers Worksheet
2	Lesson 1-9: Multiplying and Dividing Integers (Part 1: Multiplying Integers) (Part 2: Dividing Integers)	NS 1.2	Integer Operations
3	Review and Assessment		
12	Chapter 5: Operations with Fractions		
1	Mixed Numbers and Improper Fractions (p. 738)		
1	Lesson 5-1: Comparing and Ordering Fractions	MR 1.1	Comparing and Ordering Fractions – Benchmark Fractions Comparing and Ordering Fractions — Multiple Methods, Benchmark Fractions Fractions — Simplifying

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2	Lesson 5-4: Multiplying and Dividing Fractions (Part 1: Multiplying Rational Numbers) (Part 2: Dividing Rational Numbers)	NS 1.2 MR 2.6	Simplifying and Multiplying Fractions Sort Fractions — Multiplying Fractions — Dividing Fractions — Adding
3	Lesson 5-3: Adding and Subtracting Fractions	NS 1.2 NS 2.2	Adding Mixed Numbers Subtracting Mixed Numbers
1	Lesson 5-2: Fractions and Decimals (Part 1: Writing Fractions as Decimals)	NS 1.3	
1	Lesson 5-2: Fractions and Decimals (Part 2: Writing Decimals as Fractions)	NS 1.5	
3	Review and Assessment		
11	Chapter 1b: Algebraic Expressions and Integers		
1	Lesson 1-1: Variables and Expressions (Part 1: Identifying Numerical and Variable Expressions)	AF 1.4	Simplifying Expressions & Solving Equations Using Two-Column Proofs
1	Lesson 1-1: Variables and Expressions (Part 2: Writing Variable Expressions)	AF 1.1	
2	Lesson 1-3: Evaluating Expressions	AF 1.2	
2	Lesson 2-1: Properties of Numbers (Part 1: Commutative and Associative) (Part 2: Identity and Inverse)	AF 1.3 MR 2.6	
2	Lesson 2-2: The Distributive Property	AF 1.3	Distributive Property
3	Review and Assessment		
2	Benchmark 1 Review and Assessment		

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14	Chapter 2: Solving One-Step Equations & Inequalities		
2	Lesson 2-5: Solving Equations by Adding or Subtracting		Solving Equations with Two Column Proofs Equations with Algebra Tiles Solving Equations - Multiple Methods Syntax - Expressions and Equations Bar Models — Solving Equations
1	Lesson 2-6: Solving Equations by Multiplying or Dividing		One-Step Equations Solving Equations - Multiple Methods Solving Equations with Two Column Proofs Simplifying Expressions & Solving Equations Using Two-Column Proofs Solving Equations with Variables on Both Sides Solving Rational Equations
3	Lesson 7-1: Solving Two-Step Equations	AF 4.1	
1	Lesson 2-8: Inequalities and Their Graphs	AF 1.1 AF 1.5	Inequalities Sort
1	Lesson 2-9: Solving One-Step Inequalities by Adding or Subtracting		
2	Lesson 2-10: Solving One-Step Inequalities by Multiplication or Division		
1	Lesson 7-6 Solving Two-Step Inequalities	AF 4.1	
3	Review and Assessment		

Number of Days	Topics: Content, Textbook Section, Assessments	CA Content Standards	Resources
12	Chapter 6a: Ratios, Proportions, and Percents		
1	Lesson 6-5: Fractions, Decimals, and Percents	NS 1.3	
1	Lesson 6-7: Percents and Equations (Part 1: Writing and Solving Percent Equations)	NS 1.7	Percent Problems — Multiple Methods
1	Lesson 6-7: Percents and Equations (Part 2: Commission)	NS 1.7	Bar Models - Sales Price, Markup, and Discount Percent Word Problems Bar Models — Sales Price, Markup, and Discount Percent Problems
1	Lesson 6-9: Markup and Discount (Part 1: Markup)	NS 1.7	
3	Lesson 6-9: Markup and Discount (Part 2: Discount, Multiple Discounts, Sales Tax)	NS 1.7	
1	Lesson 7-8 Simple and Compound Interest (Simple Interest Only)	NS 1.7	
1	Lesson 6-8: Percent of Change	NS 1.6	
3	Review and Assessment		
13	Chapter 6b: Ratios, Proportions, and Percents		
2	Lesson 6-1: Ratios and Unit Rates	MG 1.1	Rates, Ratios, and Proportions Bar Models - Rate, Percent, Equations
3	Lesson 7-7 Transforming Formulas (Solving Problems Using $d=rt$)	AF 4.2	Distance = Rate X Time: Focus on Student Talk Distance Formula
1	Lesson 6-2: Proportions (Part 1: Solving Proportions)	AF 4.2 MG 1.3	Proportions
3	Lesson 6-2: Proportions (Part 2: Using Proportions to Solve Problems)	AF 4.2 MG 1.3	
1	Lesson 6-3: Similar Figures and Scale Drawings	AF 4.2 MG 1.3, 1.2	Congruent and Similar Polygons
3	Review and Assessment		Bar Models - Rate, Percent, Equations

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12	Chapter 4: Factors and Exponents		
2	Lesson 4-2: Exponents	NS 1.2, AF 2.1	Properties of Exponents
2	Lesson 4-7: Exponents and Multiplication	AF 2.2 NS 2.1 NS 2.3	Properties of Exponents Zero and Negative Exponents
1	Lesson 4-8: Exponents and Division (Part 1: Zero and Negative Exponents)	NS 1.2, AF 2.1	Quotient of Powers Property
2	Lesson 4-8: Exponents and Division (Part 2: Simplifying Expressions with Integer Exponents)	AF 2.1 NS 2.1 NS 2.3	
2	Lesson 4-9: Scientific Notation	NS 1.1	
3	Review and Assessment		
2	Benchmark 2 Review and Assessment		
11	Chapter 11: Right Triangles in Algebra		
1	Lesson 11-1: Square Roots and Irrational Numbers (Part 1: Finding Square Roots)	AF 2.2 NS 2.4	
2	Lesson 11-1: Square Roots and Irrational Numbers (Part 2: Classifying Real Numbers)	NS 1.4	Real Numbers — Number Line, Venn Diagram
5	Lesson 11-2: The Pythagorean Theorem	MG 3.3 NS 2.4	Square and square roots Pythagorean Theorem activities Pythagorean Theorem and its Converse Pythagorean Theorem worksheet
3	Review and Assessment		

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17	Chapter 8: Linear Functions and Graphing		
1	Lesson 10-1: The Coordinate Plane		
2	Lesson 8-2: Equations with Two Variables (Part 1: Finding Solutions)	AF 1.5 AF 3.3	
2	Lesson 8-2: Equations with Two Variables (Part 2: Graph Equations with Two Variables)	AF 1.5 AF 3.3	
3	Lesson 8-3: Slope and y-intercept (Part 1: Finding the Slope of a Line)	AF 3.4	Discovering Slope Discovering Slope of a Line in Standard Form Slope of Lines
3	Lesson 8-3: Slope and y-intercept (Part 2: Using Slope to Graph Linear Equations)	AF 3.3	
1	Lesson 13-2: Graphing Nonlinear Functions	AF 3.1	Family of Functions and Their Graphs Family of Functions – Graphing Calculator Lesson Family of Functions Graphing Worksheet
1	Lesson 8-1A: Relating Graphs to Events (pp. 384 – 385)	AF 1.5	Interpreting Data in Graphs Interpreting Graphs – Real Life Functions
1	Lesson 2-8A: Data and Graphs (pp. 98 – 99)	AF 1.5 AF 3.4	
3	Review and Assessment		
9	Chapter 12: Data Analysis and Probability		
1	Lesson 12-1: Frequency Tables and Line Plots	SDAP 1.1	
1	Lesson 8-5: Scatter Plots	SDAP 1.2	Standard Deviation and Variance
1	Lesson 3-3: Mean, Median, Mode	NS 1.2	
1	Lesson 12-2A: Stem-and-Leaf Plots (pp. 618 – 619)	SDAP 1.1	

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2	Lesson 12-2: Box-and-Whisker Plots (Part 1: Compute Minimum, Median, Maximum, and Quartiles of Data Sets) (Part 2: Making and Analyzing Box-and-Whisker Plots)	SDAP 1.1	
3	Review and Assessment		
13	Chapter 9a: Spatial Thinking Chapter 10a: Area & Volume		
2	Lesson 9-2: Angle Relationships and Parallel Lines	MG 3.4	Parallel lines cut by a Transversal Congruent and Similar Polygons Geometry Investigations
1	Lesson 9-5: Congruence	MG 3.4	
1	Lesson 9-3: Classifying Polygons	MG 2.1	Classifying Triangles
2	Lesson 10-1: Area: Parallelograms	MG 2.1	
1	Lesson 10-2: Area: Triangles and Trapezoids (Part 1: Triangles)	MG 2.1	Quadrilaterals
1	Lesson 10-2 Area: Triangles and Trapezoids (Part 2: Trapezoids)	MG 2.1	
2	Lesson 10-1: Area: Parallelograms Lesson 10-2: Area: Triangles and Trapezoids(Complex Figures)	MG 2.2	
3	Review and Assessment		
14	Chapter 9b: Spatial Thinking Chapter 10b: Area & Volume		
1	Lesson 10-4: Space Figures	MG 3.6	

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1	Lesson 9-6: Circles	AF 3.4	Circle Vocabulary Using Paper Plates
2	Lesson 10-3: Area: Circles	MG 3.1	Circle Vocabulary Area of a Circle
1	Lesson 10-5: Surface Area: Prisms and Cylinders	MG 2.1 MG 2.3	Surface Area — Prisms, Cylinders, and Spheres
1	Lesson 10-6: Surface Area: Pyramids, Cones, Spheres	MG 2.1	
1	Lesson 10-7: Volume: Prisms and Cylinders	MG 2.1	Volume of Prisms, Cylinders, and Cones
1	Lesson 10-9: Volume: Pyramids, Cones, and Spheres	MG 2.1 MG 2.3	
1	Lesson 9-8: Translations	MG 3.2	
2	Lesson 5-5: Using Customary Units of Measurement	MG 2.4	
3	Review and Assessment		
CST Testing			
13	Chapter 13: Nonlinear Functions and Polynomials		
2	Lesson 2-3: Simplifying Variable Expressions	AF 1.3 AF 1.4	
2	Lesson 13-4: Polynomials	AF 1.2	
2	Lesson 13-5: Adding and Subtracting Polynomials	AF 1.3 ALG 1 ALG 10	
2	Lesson 13-6: Multiplying a Polynomial by a Monomial	AF 1.3 ALG 1 ALG 10	Area Models Through the Grades
2	Lesson 13-7 Multiplying Binomials	AF 1.3 ALG 10	
3	Review and Assessment		
2	Benchmark 3 Review and Assessment		