



Algebra 1

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REVERSE CORRELATION

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Unit 1 Foundations for Functions	
Chapter 1 Expressions, Equations, and Functions	
1-1 Variables and Expressions	Number and Operations 1.B
1-2 Order of Operations	Number and Operations 1.A, 1.B, 2.B, 2.D Algebraic Relationships 2.B Measurement 2.D
1-3 Properties of Numbers	Number and Operations 1.B, 2.D Algebraic Relationships 2.B
1-4 The Distributive Property	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 4.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
1-5 Equations	Number and Operations 1.B, 2.D Algebraic Relationships 2.A
1-6 Representing Relations	Number and Operations 1.A, 1.B Algebraic Relationships 2.C Geometric and Spatial Relationships 4.B
1-7 Representing Functions	Number and Operations 1.A, 1.B, 2.D Algebraic Relationships 2.B, 2.C Geometric and Spatial Relationships 4.B
1-8 Logical Reasoning and Counterexamples	There are no state-mandated Algebra 1 CLEs for this topic.
Chapter 2 Linear Equations	
2-1 Writing Equations	Number and Operations 2.D Algebraic Relationships 2.A, 2.B
2-2 Solving Equations	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B
2-3 Solving Multi-Step Equations	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B
2-4 Solving Equations with the Variable on Each Side	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
2-5 Solving Equations Involving Absolute Value	Number and Operations 1.A, 1.B, 2.D Algebraic Relationships 2.B
2-6 Ratios and Proportions	Number and Operations 1.B, 1.C, 2.D, 3.E Algebraic Relationships 2.B, 3.A
2-7 Percent of Change	Number and Operations 1.B, 2.D, 3.E Algebraic Relationships 2.B, 3.A
2-8 Literal Equations and Dimensional Analysis	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 1.B Measurement 2.E
2-9 Weighted Averages	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 3.A Geometric and Spatial Relationships 4.B Measurement 2.E
Unit 2 Linear Functions and Relations	
Chapter 3 Linear Functions	
3-1 Graphing Linear Equations	Number and Operations 1.B Algebraic Relationships 1.C, 1.D, 1.E, 4.A Geometric and Spatial Relationships 4.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
3-2 Solving Linear Equations by Graphing	Algebraic Relationships 1.B, 1.C, 1.D, 1.E, 2.A, 2.C, 4.A Geometric and Spatial Relationships 4.B
3-3 Rate of Change and Slope	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 1.D, 1.E, 4.A Geometric and Spatial Relationships 4.B Data and Probability 3.A
3-4 Direct Variation	Number and Operations 1.B, 2.D Algebraic Relationships 1.D, 1.E, 2.A, 4.A Geometric and Spatial Relationships 4.B
3-5 Arithmetic Sequences as Linear Functions	Number and Operations 1.A, 1.B, 1.D, 2.D Algebraic Relationships 1.B, 1.C, 1.D, 1.E, 2.A, 2.C, 3.A, 4.A Geometric and Spatial Relationships 4.B
3-6 Proportional and Nonproportional Relationships	Number and Operations 1.A, 1.B, 1.D, 3.E Algebraic Relationships 1.B, 1.C, 1.E, 2.A, 2.C, 3.A, 4.A Geometric and Spatial Relationships 4.B
Chapter 4 Linear Functions and Relations	
4-1 Graphing Equations in Slope-Intercept Form	Algebraic Relationships 1.E, 2.A, 2.C, 4.A Geometric and Spatial Relationships 4.B Data and Probability 3.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
4-2 Writing Equations in Slope-Intercept Form	Algebraic Relationships 1.E, 2.A, 2.C, 4.A
4-3 Writing Equations in Point-Slope Form	Algebraic Relationships 1.E, 2.A, 3.A, 4.A Geometric and Spatial Relationships 1.B, 4.B
4-4 Parallel and Perpendicular Lines	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 1.E, 2.A, 2.C, 4.A Geometric and Spatial Relationships 1.B, 4.B
4-5 Scatter Plots and Lines of Fit	Number and Operations 1.B Algebraic Relationships 1.C, 1.D, 1.E, 2.A, 2.B, 2.C, 3.A, 4.A Geometric and Spatial Relationships 4.B Data and Probability 2.C, 3.A
4-6 Regression and Median-Fit Lines	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 1.D, 1.E, 2.A, 3.A, 4.A Geometric and Spatial Relationships 4.B Data and Probability 2.C, 3.A
4-7 Special Functions	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 1.D, 2.C, 3.A
Chapter 5 Linear Inequalities	
5-1 Solving Inequalities by Addition and Subtraction	Number and Operations 1.A, 1.B, 2.D Algebraic Relationships 2.A, 2.B, 3.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
5-2 Solving Inequalities by Multiplication and Division	Number and Operations 1.B, 2.D, 3.D Algebraic Relationships 2.A, 2.B, 3.A
5-3 Solving Multi-Step Inequalities	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 3.A
5-4 Solving Compound Inequalities	Number and Operations 1.A, 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 3.A Geometric and Spatial Relationships 4.B
5-5 Inequalities Involving Absolute Value	Number and Operations 1.A, 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 3.A Geometric and Spatial Relationships 4.B
5-6 Graphing Inequalities in Two Variables	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 3.A Geometric and Spatial Relationships 4.B
Chapter 6 Systems of Linear Equations and Inequalities	
6-1 Graphing Systems of Equations	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 1.E, 2.A, 2.B, 2.C, 2.D, 3.A Geometric and Spatial Relationships 1.B, 4.B
6-2 Substitution	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 2.D, 3.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
6-3 Elimination Using Addition and Subtraction	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 2.D, 3.A
6-4 Elimination Using Multiplication	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 2.D, 3.A
6-5 Applying Systems of Linear Equations	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 2.D, 3.A Geometric and Spatial Relationships 4.B
6-6 Organizing Data Using Matrices	Number and Operations 1.B, 2.B, 2.D Algebraic Relationships 3.A Geometric and Spatial Relationships 4.B
6-7 Using Matrices to Solve Systems of Equations	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.C, 2.D, 3.A Geometric and Spatial Relationships 4.B
6-8 Systems of Inequalities	Number and Operations 1.B, 2.D Algebraic Relationships 2.A, 2.B, 2.D, 3.A Geometric and Spatial Relationships 4.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Unit 3 Nonlinear Expressions, Equations, and Functions	
Chapter 7 Polynomials	
7-1 Multiplying Monomials	Number and Operations 1.B, 1.C, 2.B, 2.D Algebraic Relationships 2.B Measurement 2.D
7-2 Dividing Monomials	Number and Operations 1.B, 1.C, 2.B, 2.D Algebraic Relationships 2.B Measurement 2.D
7-3 Scientific Notation	Number and Operations 1.A, 1.B, 1.C, 2.B, 2.D Algebraic Relationships 2.B Measurement 2.D
7-4 Polynomials	Number and Operations 2.D Algebraic Relationships 2.B
7-5 Adding and Subtracting Polynomials	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 4.B
7-6 Multiplying a Polynomial by a Monomial	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 1.B, 4.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
7-7 Multiplying Polynomials	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 2.A, 2.B, 2.C Geometric and Spatial Relationships 1.B, 4.B
7-8 Special Products	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 2.A, 2.B, 2.C
Chapter 8 Factoring and Quadratic Equations	
8-1 Monomials and Factoring	Number and Operations 1.B, 1.C, 2.B, 2.D Algebraic Relationships 2.B
8-2 Using the Distributive Property	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 2.B
8-3 Quadratic Equations: $x^2 + bx + c = 0$	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 2.B, 2.C, 4.A
8-4 Quadratic Equations: $ax^2 + bx + c = 0$	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 2.A, 2.B, 2.C, 4.A Geometric and Spatial Relationships 1.B, 4.B
8-5 Quadratic Equations: Differences of Squares	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 2.B, 2.C, 4.A
8-6 Quadratic Equations: Perfect Squares	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 2.A, 2.B, 2.C, 4.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
Chapter 9 Quadratic and Exponential Functions	
9-1 Graphing Quadratic Functions	Number and Operations 1.B, 2.D Algebraic Relationships 1.E, 4.A Geometric and Spatial Relationships 4.B
9-2 Solving Quadratic Equations by Graphing	Number and Operations 1.B, 2.D, 3.D Algebraic Relationships 1.E, 2.A, 4.A Geometric and Spatial Relationships 4.B
9-3 Transformations of Quadratic Functions	Number and Operations 1.B, 2.D Algebraic Relationships 1.D, 1.E, 2.A, 2.C, 4.A Geometric and Spatial Relationships 4.B
9-4 Solving Quadratic Equations by Completing the Square	Number and Operations 1.B, 2.D, 3.D Algebraic Relationships 1.C, 2.C, 4.A Geometric and Spatial Relationships 4.B
9-5 Solving Quadratic Equations by Using the Quadratic Formula	Number and Operations 1.B, 2.D, 3.D Algebraic Relationships 1.C, 2.B, 2.C, 4.A Geometric and Spatial Relationships 4.B
9-6 Exponential Functions	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 1.E, 3.A Geometric and Spatial Relationships 4.B Measurement 2.D

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
9-7 Growth and Decay	Number and Operations 1.B, 1.C, 2.D Algebraic Relationships 1.B, 1.C, 1.E, 2.B, 3.A Geometric and Spatial Relationships 4.B Measurement 2.D
9-8 Geometric Sequences as Exponential Functions	Number and Operations 1.B, 1.C, 2.D Algebraic Relationships 1.B, 1.C, 1.E, 2.B, 3.A Geometric and Spatial Relationships 4.B Measurement 2.D Data and Probability 3.A
9-9 Analyzing Functions with Successive Differences and Ratios	Number and Operations 1.B, 2.D Algebraic Relationships 1.B, 1.C, 1.D, 1.E, 2.B, 3.A Geometric and Spatial Relationships 4.B Measurement 2.D Data and Probability 3.A
Unit 4 Advanced Functions and Equations	
Chapter 10 Radical Functions and Geometry	
10-1 Square Root Functions	Number and Operations 1.B, 2.D Algebraic Relationships 1.E, 2.B, 2.C, 3.A Geometric and Spatial Relationships 4.B

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
10-2 Simplifying Radical Expressions	Number and Operations 2.B, 2.D Algebraic Relationships 2.B Measurement 2.D
10-3 Operations with Radical Expressions	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 1.B, 4.B Measurement 2.D
10-4 Radical Equations	Number and Operations 2.D Algebraic Relationships 2.B Measurement 2.D
10-5 The Pythagorean Theorem	Number and Operations 1.B, 2.D, 3.D Algebraic Relationships 1.C, 2.B Geometric and Spatial Relationships 1.B, 4.B Measurement 2.D
10-6 The Distance and Midpoint Formulas	Number and Operations 1.A, 1.B, 2.D, 3.D Algebraic Relationships 1.C, 2.B Geometric and Spatial Relationships 1.B, 4.B Measurement 2.D

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
10-7 Similar Triangles	Number and Operations 1.B, 2.D, 3.E Algebraic Relationships 2.B Geometric and Spatial Relationships 1.B, 4.B
10-8 Trigonometric Ratios	Number and Operations 1.B, 2.D Algebraic Relationships 1.C, 2.B Geometric and Spatial Relationships 1.B, 4.B
Chapter 11 Rational Functions and Equations	
11-1 Inverse Variation	Number and Operations 1.B, 3.E Algebraic Relationships 1.B, 1.C, 1.D, 1.E, 2.B, 2.C, 3.A Geometric and Spatial Relationships 4.B
11-2 Rational Functions	Number and Operations 1.B Algebraic Relationships 1.B, 1.D, 1.E, 2.C Geometric and Spatial Relationships 4.B
11-3 Simplifying Rational Expressions	Number and Operations 2.D, 3.D Algebraic Relationships 2.B
11-4 Multiplying and Dividing Rational Expressions	Number and Operations 2.D, 3.D Algebraic Relationships 2.B Measurement 2.E

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
11-5 Dividing Polynomials	Number and Operations 2.D Algebraic Relationships 1.C, 2.B
11-6 Adding and Subtracting Rational Expressions	Number and Operations 2.D Algebraic Relationships 2.B Measurement 2.E
11-7 Mixed Expressions and Complex Fractions	Number and Operations 2.D Algebraic Relationships 2.B Measurement 2.E
11-8 Rational Equations	Number and Operations 2.D, 3.D Algebraic Relationships 2.B, 3.A Measurement 2.E
Unit 5 Data Analysis	
Chapter 12 Statistics and Probability	
12-1 Designing a Survey	Data and Probability 1.A
12-2 Analyzing Survey Results	Number and Operations 1.B Data and Probability 1.A, 2.A, 3.A
12-3 Statistics and Parameters	Number and Operations 2.D Data and Probability 1.A, 1.C, 2.A

CHAPTER/LESSON TITLES	COURSE-LEVEL EXPECTATIONS
12-4 Permutations and Combinations	Number and Operations 2.D Algebraic Relationships 1.B, 1.C, 2.B
12-5 Probability of Compound Events	Number and Operations 1.B, 2.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 4.B Measurement 2.D
12-6 Probability Distributions	Number and Operations 1.B, 2.D Algebraic Relationships 2.B Geometric and Spatial Relationships 4.B Data and Probability 1.A
12-7 Probability Simulations	Number and Operations 1.B, 2.D Algebraic Relationships 2.B