

DISTRICT U-46

ALGEBRA 1-2 PACING GUIDE

(Illinois Learning Standards)

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
<p><u>Chapter 1: Language of Algebra</u></p> <p>1-1 Variables and Expressions (7B/8A)</p> <p>1-2 Order of Operations (6A)</p> <p>1-4 Identity & Equality Properties (6A/6B)</p> <p>1-5 Distributive Property (6A)</p> <p>1-6 Commutative & Associative (6A)</p> <p>1-8 Graphs and Functions (10A)</p> <p><u>Chapter 2: Real Numbers</u></p> <p>2-1 Rational Numbers (8B)</p> <p>2-2 Adding & Subtracting Rational Numbers (8B)</p> <p>2-3 Multiplying Rational Numbers (6B/6C)</p> <p>2-4 Dividing Rational Numbers (6B/6C)</p> <p>2-6 Simple Probability & Odds (10C)</p> <p>2-7 Square Roots & Real Numbers (6C/7B/8B)</p> <p><u>Chapter 3: Solving Equations</u></p> <p>3-1 Writing Equations (7B/8D)</p> <p>3-2 Solving Equations by Adding & Subtracting (8D)</p> <p>3-3 Solving Equations by Multiplying & Dividing (8D)</p> <p>3-4 Solving Multi-step Equations (8D)</p> <p>3-5 Solving Equations w/Variables on both sides (8D)</p> <p>3-6 Ratios & Proportions (6D/9A)</p> <p>3-7 Percent of Change (6D)</p> <p>3-8 Solving Equations & Formulas (7B/8D)</p> <p style="text-align: center;"><u>1st Quarter - Optional Lessons</u></p> <p>1-3 Open Sentences (6B/6C)</p> <p>1-7 Logical Reasoning (9C/9D)</p> <p>1-9 Analyzing Graphs & Tables (10A)</p> <p>2-5 Analyzing Data (10A)</p> <p>3-9 Weighted Averages (6D/7A/7B/8D)</p>	<p><u>Chapter 4: Graphing Relations & Functions</u></p> <p>4-1 The Coordinate Plane (6C)</p> <p>4-3 Relations (8A)</p> <p>4-4 Equations as Relations (8B)</p> <p>4-5 Graphing Linear Relations (8B)</p> <p>4-6 Functions (8C/8D)</p> <p><u>Chapter 5: Analyzing Linear Equations</u></p> <p>5-1 Slope (8A)</p> <p>5-2 Slope and Direct Variation (8C)</p> <p>5-3 Slope-Intercept Form (7B/8C)</p> <p>5-4 Writing Equations in Slope-Intercept Form (8C/8D)</p> <p>5-6 Parallel and Perpendicular Lines (8B)</p> <p>5-6 Writing Equations in Point-Slope Form (8C/8D)</p> <p>5-7 Scatter Plots & Lines of Best Fit (10A)</p> <p><u>Chapter 6: Solving Linear Inequalities</u></p> <p>6-1 Solving Inequalities w/Addition & Subtraction (6B/8D)</p> <p>6-2 Solving Inequalities w/Multiplication & Division (8D)</p> <p>6-3 Solving Multi-step Inequalities (7B/8D)</p> <p>6-4 Solving Compound Inequalities (8D)</p> <p>6-5 Solving Absolute Value Inequalities(6B/6C)</p> <p>6-6 Linear Inequalities (6B)</p> <p style="text-align: center;"><u>2nd Quarter - Optional Lessons</u></p> <p>13-3 Histograms (10A)</p> <p>13-5 Box and Whisker Plots (10A)</p> <p>14-1 Counting Outcomes (10A)</p> <p>14-4 Probability Distributions (10C)</p>	<p><u>Chapter 7: Solving Systems of Linear Equations /Inequalities</u></p> <p>7-1 Solving by Graphing (8C/8D)</p> <p>7-2 Substitution (8C/8D)</p> <p>7-3 Elimination by Addition or Subtraction (8C/8D)</p> <p>7-4 Elimination by Multiplication (8C/8D)</p> <p>7-5 Graphing System of Inequalities(8C/8D)</p> <p><u>Chapter 8: Polynomials</u></p> <p>8-1 Multiplying Monomials (9A)</p> <p>8-2 Dividing Monomials (6A/6C)</p> <p>8-3 Scientific Notation (6A)</p> <p>8-4 Polynomials (6B/6C)</p> <p>8-5 Adding & Subtracting Polynomials (6B/6C)</p> <p>8-6 Multiplying Polynomials by a Monomial (6B/6C)</p> <p>8-7 Multiplying Polynomials (FOIL) (6B/6C)</p> <p>8-8 Special Products (6B/6C)</p> <p><u>Chapter 9: Factoring</u></p> <p>9-1 Factors and GCF (8A/8C/8D)</p> <p>9-2 Factoring using the Distributive Property (8A/8C/8D)</p> <p>9-3 Factoring Trinomials (a = 1) (8A/8C/8D)</p> <p>9-4 Factoring Trinomials (a ≠ 1) (8A/8C/8D)</p> <p>9-5 Factoring Difference of Squares (8A/8C/8D)</p> <p>9-6 Perfect Squares (8A/8C/8D)</p> <p style="text-align: center;"><u>3rd Quarter - Optional Lessons</u></p> <p>7-C Cramer's Rule (8C/8D)</p> <p style="font-size: small;">3rd quarter Middle School Algebra pacing may be adjusted due to ISAT testing</p>	<p><u>Chapter 12: Rational Expressions & Equations</u></p> <p>12-2 Rational Expressions (8C/8D)</p> <p>12-3 Multiplying Rational Expressions (7C)</p> <p>12-4 Dividing Rational Expressions (6C/7C)</p> <p>12-6 Rational Expressions w/Common Denominators (8C/8D)</p> <p><u>Chapter 11: Radical Expressions</u></p> <p>11-1 Simplifying Radical Expressions (6A/7B)</p> <p>11-2 Operations with Radical Expressions (6A)</p> <p>11-3 Radical Equations (6A)</p> <p>11-4 Pythagorean Theorem (9B)</p> <p>11-5 Distance Formula (9A/9D)</p> <p><u>Chapter 10: Quadratics & Exponential Functions</u></p> <p>10-1 Graphing Quadratic Functions (8B/8C)</p> <p>10-2 Solving Quadratic Equations by Graphing (6C/8C/8D)</p> <p>10-4 Solving Quadratic Equations by Using the Quadratic Formula(8C/8D)</p> <p style="text-align: center;"><u>4th Quarter - Optional Lessons</u></p> <p>12-1 Inverse Variation (8B)</p> <p>12-5 Dividing Polynomials (7A)</p> <p>12-7 Rational Expressions w/Uncommon Denominators (8C/8D)</p> <p>12-8 Mixed Expression & Complex Fractions (6D)</p> <p>12-9 Solving Rational Equations (8D)</p> <p>11-7 Trigonometric Ratios (9D)</p> <p>10-3 Completing the Square (8D)</p>