Algebra 1 Pacing Guide – SAAVAS Envision Textbook

MP 1
Topic 1: Solving Equations and Inequalities
- 1-1: Operations on Real Numbers
- 1-2: Solving Linear Equations
  - Solving One-Step Equations
  - Solving Two-Step Equations
  - Solving Multi-Step Equations
- 1-3: Solving Equations with a Variable on Both Sides
- 1-4: Literal Equations and Formulas
- 1-5: Solving Inequalities in One Variable
- 1-6: Compound Inequalities
- 1-7: Absolute Value Equations and Inequalities

Topic 3: Linear Functions
- 3-1: Relations and Functions
  - Multiple Representations of Relations – Is the relations a function? – Vertical Line Test
  - Identifying Domain and Range of Relations – Writing Domain and Range of Continuous Graphs
  - Evaluating Functions
  - Writing relations in Function Notation
  - Average Rate of Change
- 3-2: Linear Functions
  - Identifying Linear Functions from tables, graphs, equations, etc.
  - The Slope Formula

MP 2
Topic 2: Linear Equations
- 2-1: Slope-Intercept Form
- 2-2: Point-Slope Form
- 2-3: Standard Form
- 2-4: Parallel and Perpendicular Lines

Topic 4: Systems of Linear Equations
- 4-1: Solving Systems of Equation by Graphing
- 4-2: Solving Systems of Equations by Substitution
- 4-3: Solving Systems of Equations by Elimination
- 4-4: Graphing Linear Inequalities
- 4-5: Systems of Linear Inequalities

Topic 5: Piecewise Functions
- 5-1: The Absolute Value Functions

MP 3
Topic 7: Polynomials and Factoring
- 7-1: Adding and Subtracting Polynomials
- 7-2: Multiplying Polynomials
- 7-3: Multiplying Special Cases
- 7-4: Factoring Polynomials
- 7-5: Factoring $x^2 + bx + c$
- 7-6: Factoring $ax^2 + bx + c$
- 7-7: Factoring Special Cases

Topic 8: Quadratics
- 8-1: Key Features of Graphs of Quadratic Functions
- 8-2: Quadratic Functions in Vertex Form
- 8-3: Quadratic Functions in Standard Form
- 8-4: Modeling with Quadratic Functions

Topic 9: Solving Quadratic Equations
- 9-1: Solving Quadratic Equations Using Graphing and Tables
- 9-2: Solving Quadratic Equations by Factoring
- 9-3: Rewriting Radical Expressions
- 9-4: Solving Quadratic Equations Using Square Roots
- 9-5: Completing the Square
- 9-6: The Quadratic Formula and Discriminant.

MP 4
Topic 6 Exponents and Exponential Functions
- 6-1: Rational Exponents and Properties of Exponents
- 6-2: Exponential Functions
- 6-3: Exponential Growth and Decay
- 6-4: Geometric Sequence.

Topic 3: Linear Functions
- 3-4: Arithmetic Sequences
- 3-5: Scatter Plots and Lines of Fit

Topic 10 Working with Functions
- 10-4: Translations of Functions
- 10-5: Compressions and Stretches of Functions
- 10-6: Operations with Functions

Topic 11 Statistics
- 11-1: Analyzing Data Displays
- 11-2: Comparing Data Sets
- 11-3: Interpreting the Shapes of Data Displays
- 11-4: Standard Deviations
- 11-5 Two-Way Frequency Tables.