

Pre-Algebra Curriculum

Week 1: Basics of Algebra

- Variable expressions
- Evaluate expressions
- Combine like terms, distributive property & Simplify expressions
- Equivalent expressions

Week 2: Solving Equations

- Solving one, two and multi-step equations
- Word problems

Week 3: Solving Inequalities

- Solving one, two and multi-step inequalities
- Word problems

Week 4: Graphs of Linear Equations

- Finding slope
- Graphing lines
- Writing equations of lines
- Writing and Solving systems of equations from context

Week 5: Graphing Inequalities

- Solving systems of inequalities
- Finding solutions of compound inequalities
- Word problems

Week 6: Factoring Techniques

- GCF
- Difference of Squares
- Trinomials

Week 7: Quadratic Functions

- Graphing quadratic functions
- Finding vertex, root, x & y intercepts

Week 8: Polynomials

- Naming polynomials
- Factoring polynomials
- Math operations with polynomials

Week 9: Radical Expressions

- Simplifying radicals
- Using math operations with radical expressions

Week 10: Exponents

- Properties of exponent

(Optional) Week 11: Trigonometry

- Finding trig ratios
- Finding angles of triangles
- Finding side lengths of triangles
- Pythagorean Theorem

(Optional) Week 12: Statistics

- Visualizing data
- Measures of central tendency
- Using statistical models