

College Readiness - Curriculum Map

1- Algebraic Expressions & Measurement

- Algebraic Expressions
- Literal Equations
- Adding/Subtracting Polynomials
- Multiplying Polynomials
- Unit Conversions
- Dimensional Analysis

2 - Linear Functions

- Relations & Functions
- Domain & Range
- Notation (Set, Algebraic, Interval)
- Function Notation & Evaluating Functions
- Graphing Linear Equations (2 Variables)
- Graphing Linear Inequalities
- Finding Slope & Writing Equations of Lines
- Slope - Intercept Form
- Standard Form
- Point - Slope Form
- Parallel & Perpendicular Lines
- Systems of Equations (Graphing, Substitution, Elimination)
- Applications of Systems of Equations

3A - Factoring Quadratics

- GCF
- Trinomials with Leading Coefficient = 1
- Trinomials with Leading Coefficient > 1
- Special Products
- Difference of Squares

3A - Solving Quadratics

- By Factoring
- By Square Roots
- By Completing the Square (CTS)
- By Quadratic Formula
- Selecting the Best Method

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3B - Graphing Quadratics

- Standard Form
- Vertex Form
- Intercept Form
- Parent Function
- Transformations
- Parabolas
- Axis of Symmetry
- Vertex
- Domain & Range
- X & Y Intercepts

4A - Rational Expressions

- Simplifying Rational Expressions
- Multiplying Rational Expressions
- Dividing Rational Expressions

4B - Graphing Rational Expressions

- Slant Asymptotes
- Vertical Asymptotes
- Horizontal Asymptotes
- X & Y Intercepts
- Holes
- Domain & Range

5 - Radicals

- Parts of Radicals
- Number of Roots
- Simplifying Radicals
- Radicals with Variables
- Adding & Subtracting Radicals
- Multiplying Radicals
- Radical Binomials
- Dividing Radicals
- Rationalizing the Denominator
- Rational Exponents
- Converting Between Exponential & Radical Forms
- Simplifying Expressions with Rational Exponents
- Radical Equations

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- Square Root Parent Functions
- Cube Root Parent Functions
- Transformations
- Graphing Radical Functions

6A - Exponential & Logarithmic Functions

- Solving Exponential Equations
- Converting Logarithmic to Exponential Form
- Converting Exponential to Logarithmic Form
- Common Logarithm
- Evaluating Logarithms
- Change of Base Formula
- Product Property
- Quotient Property
- Power Property
- Condensing & Expanding Logs
- Logarithmic Equations ($\log = \log / \log = \text{Number}$)
- Base “e” Exponential Functions
- Base “e” Logarithmic Functions
- Converting Between Forms
- Simplifying with Properties
- Exponential Growth & Decay
- Compound Interest

6B - Graphing Exponential & Logarithmic Functions

- Exponential Parent Function
- Asymptotes
- Transformations of Exponential Functions
- Logarithmic Parent Function