



CURRICULAR · MATH

Algebra 1

A 12-month Algebra 1 program of eight belts across four arenas, moving from rational numbers, expressions and functions through linear equations, slope, inequalities and systems of equations to sequences, exponentials and quadratics.

8 belts

48 topics

Grade 9

Completes in 12 Months

○ White Belt 1

Arena 1 · 6 Weeks

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|---|--|
| 1. Rational & Irrational Numbers | 4. Undefined & Indeterminate Expressions |
| 2. Introduction to Algebra & Coordinate Plane | 5. Introduction to Functions |
| 3. Equivalent Expressions | 6. Review/Assessment |

○ White Belt 2

Arena 1 · 6 Weeks

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|---|-----------------------------------|
| 1. Equations and Inequalities | 4. Multi Step Inequalities |
| 2. Equations With Variables On Both Sides | 5. Compound & Double Inequalities |
| 3. Linear Equations With Parentheses | 6. Review/Assessment |

● Yellow Belt 1

Arena 2 · 6 Weeks

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|---|---|
| 1. Rate Conversions & Appropriate Quantities | 4. Linear Equations Word Problems (Using tables & graphs) |
| 2. Slope- Introduction, Graphing & Calculating | 5. Using Graphs to Analyze Data |
| 3. Intercepts - Introduction, Application & Interception (from graph, equation & table) | 6. Review/Assessment |

● Yellow Belt 2

Arena 2 · 6 Weeks

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|---|--|
| 1. Forms Of Linear Equations | 4. Point-Slope Form |
| 2. Linear Relationships | 5. System Of Equations With Graphing (Exact & Approximate Solutions) |
| 3. Slope-Intercept Form - Introduction, Graphing, & Solving Equations | 6. Review/Assessment |

● Green Belt 1

Arena 3 · 6 Weeks

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|--|------------------------------------|
| 1. System Of Equations With Substitution | 4. Graphing Inequalities |
| 2. System Of Equations With Elimination | 5. Solving Systems Of Inequalities |
| 3. Equivalent Systems Of Equations & Number Of Solutions To Systems Of Equations | 6. Review/Assessment |

Green Belt 2

Arena 3 · 6 Weeks

1. Algebraic Functions- Introduction, & Evaluation
2. Interpreting Function Notation & Determining Domain of functions
3. Recognizing Functions, Intervals & Features Of Graphs
4. Average Rate Of Change- Introduction & Word Problems
5. Experimental probability
6. Review/Assessment

Blue Belt 1

Arena 4 · 6 Weeks

1. Sequences
2. Arithmetic & Geometric Sequences - Introduction-Construction
3. Absolute Value & Piecewise Functions
4. Exponents & Radicals
5. Decay, Exponential & Linear Growth
6. Review/Assessment

Blue Belt 2

Arena 4 · 6 Weeks

1. Polynomials, Binomials & Factoring Quadratics
2. Parabolas & Quadratic Functions
3. Quadratic Formula
4. Completing The Square
5. Quadratic Equations - Introduction, Features & Forms
6. Review/Assessment