

CURRICULAR · MATH

Grade 7 Math

A 12-month Grade 7 math program of eight six-week belts that moves from whole and rational numbers through fractions, ratios and percents into algebra, functions, probability, geometry and data analysis.

8 belts

72 topics

Grade 7

Completes in 12 Months

○ White Belt 1

Level 1 · 6 Weeks

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|--|--|
| 1. Whole numbers To Trillions | 6. Commutative-Associative-Distributive Property |
| 2. Rational & Irrational Numbers | 7. Order Of Operations |
| 3. Rational Numbers & Operations | 8. Factors |
| 4. Multiple Representation Of Rational Numbers | 9. Review/Assessment |
| 5. Estimation | |

○ White Belt 2

Level 1 · 6 Weeks

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|---|--------------------------|
| 1. Exponents | 6. Simplifying Fractions |
| 2. Polynomials & Exponents | 7. Fraction Operations |
| 3. Exponents To Repeated Multiplication | 8. Equivalent Fractions |
| 4. Repeated Multiplication To Exponents | 9. Review/Assessment |
| 5. Fraction | |

● Yellow Belt 1

Level 2 · 6 Weeks

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|------------------------------|-----------------------|
| 1. Mixed Numbers | 6. Ratio |
| 2. Add/Subtract Fraction | 7. Proportions |
| 3. Multiply/Divide Fractions | 8. Simple Proportions |
| 4. Decimal Operations | 9. Review/Assessment |
| 5. Mathematical Processes | |

● Yellow Belt 2

Level 2 · 6 Weeks

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|---|-----------------------|
| 1. Numerical Proportions | 6. Percentage |
| 2. Geometric Proportions | 7. Using Integers |
| 3. Percents- Introduction & Application | 8. Integer Operations |
| 4. Percent, Rate, Base | 9. Review/Assessment |
| 5. Numbers & Percent | |

Green Belt 1

Level 3 · 6 Weeks

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|-----------------------------|---|
| 1. Algebra - Introduction | 6. Algebraic Equations - Linear Equations |
| 2. One & Two-Step Equations | 7. Algebraic Inequalities |
| 3. Equations & Inequalities | 8. Solving Equations & Inequalities |
| 4. Simple Algebra | 9. Review/Assessment |
| 5. Linear Relationships | |

Green Belt 2

Level 3 · 6 Weeks

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|--------------------------------------|--|
| 1. Introduction To Functions | 6. Theoretical Probability & Counting |
| 2. Non-Linear Functions & Set Theory | 7. Lines & Angles - Plane Figures |
| 3. Sequences & Functions | 8. Plane Figures - Closed Figure Relationships |
| 4. Probability - Introduction | 9. Review/Assessment |
| 5. Experimental Probability | |

Blue Belt 1

Level 4 · 6 Weeks

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|-----------------------------------|-------------------------|
| 1. Similarity & Scale | 6. Diameter Of A Circle |
| 2. Pythagorean Theorem | 7. Formulas |
| 3. Area | 8. Perimeter |
| 4. Exploring Area & Surface Area | 9. Review/Assessment |
| 5. Area & Circumference Of Circle | |

Blue Belt 2

Level 4 · 6 Weeks

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|-------------------------------|---|
| 1. Finding Volume | 6. Using Graphs To Analyze Data |
| 2. Measurement | 7. Analysing Graphing & Displaying Data |
| 3. Three Dimensional Geometry | 8. Collecting & Describing Data |
| 4. Organizing Data | 9. Review/Assessment |
| 5. Graphs | |