



Key Topics by Grade with Alabama Mathematics Course of Study



3rd Grade

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| 1. Place Value to 10,000 | 3.1.b-d |
| 2. Multi-Digit Addition | 3.2.b |
| 3. Multi-Digit Subtraction | 3.2.b |
| 4. Multiplication by a Single Digit | 3.3.a-c |
| 5. Division by a Single Digit | 3.4 |
| 6. Geometry—Identifying Shapes | 3.8.a
4.11 |
| 7. Basic Fractions | 3.5 |

4th Grade

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| 1. Place Value to 1,000,000 | 4.1.b
4.1.c |
| 2. Multi-Digit Multiplication | 4.7.c |
| 3. Long Division w/Single Digit Divisor | 4.7.c |
| 4. Geometry—Area and Perimeter | 4.14.b
5.12 |
| 5. Algebra—Find the Missing Number or Sign | 4.10 |
| 6. Add/Subtract Fractions w/Like Denominators | 4.4 |
| 7. Basic Decimals—Add/Subtract Decimals | 4.1.a
4.1.c
4.6.b |

5th Grade

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| 1. Graphing Coordinates | 5.9
5.5.b |
| 2. Long Division w/Multi-Digit Divisors | 5.2.c |
| 3. Multiply/Divide Decimals | 6.2 |
| 4. Geometry—Area of Parallelograms and Triangles | 6.7.b |
| 5. Add/Subtract Integers | 7.1.a |
| 6. Add/Subtract Fractions w/Unlike Denominators | 5.4.b
5.4.c |
| 7. Decimals, Fractions, and Percents | 5.1.a
6.1.b |

6th Grade

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| 1. Factoring Numbers, GCF, and LCM | 6.1.e
6.1.g
6.1.j |
| 2. Geometry—Circumference/Area of a Circle | 7.9.b
7.9.c
7.9.f |
| 3. Add/Subtract Mixed Numbers | 5.4.a
6.1.j |
| 4. Ratios and Proportions | 8.1.c |
| 5. Multiply/Divide Integers | 7.1.a |
| 6. Algebra—Solve One-Step Equations | 7.1.b
7.6.c |
| 7. Compare/Order Fractions, Decimals, and Integers | 6.1.a |

7th Grade

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| 1. Order of Operations | 7.2.d |
| 2. Multiply/Divide Fractions | 6.1.h |
| 3. Powers, Exponents, and Roots | 7.2.b
7.2.c |
| 4. Algebra—Solve Two-Step Equations | 7.1.b
7.6.c |
| 5. Graphing Using the Slope Formula | 8.4.a
AI.2.a |
| 6. Simplifying Fractions w/Variables | AI.6 |
| 7. Pythagorean Theorem and Right Triangles | 8.7.c |

8th Grade

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| 1. Algebra—Solve Multi-Step Equations | 8.6 |
| 2. Add/Subtract Polynomials | AI.5 |
| 3. Multiply/Divide Polynomials | AI.5 |
| 4. FOIL | AI.5 |
| 5. Factoring Polynomials | AI.6 |
| 6. Graph Linear Equations | AI.2.c |
| 7. Quadratic Formula | AI.9 |