



# Key Topics by Grade with Indiana Standards



## 3rd Grade

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|-------------------------------------|-------------------------|
| 1. Place Value to 10,000            | 3.1.1-3<br>3.1.5        |
| 2. Multi-Digit Addition             | 3.2.1<br>4.2.1          |
| 3. Multi-Digit Subtraction          | 3.2.1<br>4.2.1          |
| 4. Multiplication by a Single Digit | 3.2.2<br>3.2.4<br>3.2.5 |
| 5. Division by a Single Digit       | 3.2.3<br>3.2.4          |
| 6. Geometry–Identifying Shapes      | 3.4.1<br>3.4.2          |
| 7. Basic Fractions                  | 3.1.8-10                |

## 4th Grade

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|---|---|
| 1. Place Value to 1,000,000                   | 4.1.1<br>4.1.2<br>4.1.4                     |
| 2. Multi-Digit Multiplication                 | 4.2.4<br>5.2.1                              |
| 3. Long Division w/Single Digit Divisor       | 5.2.1                                       |
| 4. Geometry–Area and Perimeter                | 4.5.3-5                                     |
| 5. Algebra–Find the Missing Number or Sign    | 4.3.1                                       |
| 6. Add/Subtract Fractions w/Like Denominators | 3.2.6                                       |
| 7. Basic Decimals–Add/Subtract Decimals       | 3.1.12<br>4.1.8<br>4.2.9<br>4.2.10<br>5.2.5 |

## 5th Grade

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|--|----------------|
| 1. Graphing Coordinates                          | 5.3.4<br>6.3.7 |
| 2. Long Division w/Multi-Digit Divisors          | 5.2.1          |
| 3. Multiply/Divide Decimals                      | 6.2.3          |
| 4. Geometry–Area of Parallelograms and Triangles | 5.5.1          |
| 5. Add/Subtract Integers                         | 6.2.1          |
| 6. Add/Subtract Fractions w/Unlike Denominators  | 4.2.8          |
| 7. Decimals, Fractions, and Percents             | 5.1.4<br>6.1.4 |

## 6th Grade

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|--|----------------|
| 1. Factoring Numbers, GCF, and LCM                 | 6.1.7<br>7.1.5 |
| 2. Geometry–Circumference/Area of a Circle         | 6.5.4<br>6.5.5 |
| 3. Add/Subtract Mixed Numbers                      | 5.2.2          |
| 4. Ratios and Proportions                          | 6.2.6<br>6.2.7 |
| 5. Multiply/Divide Integers                        | 6.2.2          |
| 6. Algebra–Solve One-Step Equations                | 6.3.1          |
| 7. Compare/Order Fractions, Decimals, and Integers | 6.1.3          |

## 7th Grade

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|--|-------------------------|
| 1. Order of Operations                     | 6.3.6<br>7.2.1          |
| 2. Multiply/Divide Fractions               | 5.2.3<br>6.2.4          |
| 3. Powers, Exponents, and Roots            | 7.1.4<br>7.1.6<br>8.1.4 |
| 4. Algebra–Solve Two-Step Equations        | 7.3.2                   |
| 5. Graphing Using the Slope Formula        | 7.3.6<br>7.3.7<br>7.3.8 |
| 6. Simplifying Fractions w/Variables       | 8.3.3<br>A1.6.2         |
| 7. Pythagorean Theorem and Right Triangles | 7.1.6<br>7.4.3          |

## 8th Grade

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|---------------------------------------|----------------------------|
| 1. Algebra–Solve Multi-Step Equations | A1.2.1                     |
| 2. Add/Subtract Polynomials           | A1.6.1                     |
| 3. Multiply/Divide Polynomials        | A1.6.2<br>A1.6.4<br>A1.6.5 |
| 4. FOIL                               | A1.6.4                     |
| 5. Factoring Polynomials              | A1.6.6<br>A1.6.7           |
| 6. Graph Linear Equations             | A1.4.1                     |
| 7. Quadratic Formula                  | A1.8.2<br>A1.8.6           |