



# Key Topics by Grade with Maryland VSC



## 3rd Grade

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|-------------------------------------|-------------------------------|
| 1. Place Value to 10,000            | 3.6A.1a-c                     |
| 2. Multi-Digit Addition             | 3.6C.1a                       |
| 3. Multi-Digit Subtraction          | 3.6C.1b                       |
| 4. Multiplication by a Single Digit | 3.6C.1f<br>3.6C.1h<br>3.6C.1j |
| 5. Division by a Single Digit       | 3.6C.1f<br>3.6C.1j            |
| 6. Geometry—Identifying Shapes      | 3.2A.1a-c                     |
| 7. Basic Fractions                  | 3.6A.2a                       |

## 4th Grade

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|---|---|
| 1. Place Value to 1,000,000                   | 4.6A.1a-d   |
| 2. Multi-Digit Multiplication                 | 4.6C.1c   |
| 3. Long Division w/Single Digit Divisor       | 4.6C.1d   |
| 4. Geometry—Area and Perimeter                | 4.3C.1a<br>4.3C.1b                                  |
| 5. Algebra—Find the Missing Number or Sign    | 4.1B.2b   |
| 6. Add/Subtract Fractions w/Like Denominators | 4.6C.1e   |
| 7. Basic Decimals—Add/Subtract Decimals       | 4.6A.2e<br>4.6A.2f<br>4.6A.2h<br>4.6C.1f<br>4.6C.1g |

## 5th Grade

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|--|-------------------------------|
| 1. Graphing Coordinates                          | 6.1C.1b                       |
| 2. Long Division w/Multi-Digit Divisors          | 5.6C.1b                       |
| 3. Multiply/Divide Decimals                      | 5.6C.1g<br>5.6C.1h<br>6.6C.1d |
| 4. Geometry—Area of Parallelograms and Triangles | 6.3C.1a<br>7.3C.1a            |
| 5. Add/Subtract Integers                         | 7.6C.1a                       |
| 6. Add/Subtract Fractions w/Unlike Denominators  | 5.6C.1d                       |
| 7. Decimals, Fractions, and Percents             | 6.6A.1c                       |

## 6th Grade

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|--|-------------------------------|
| 1. Factoring Numbers, GCF, and LCM                 | 5.6B.1c<br>5.6B.1d<br>6.6B.1a |
| 2. Geometry—Circumference/Area of a Circle         | 8.3C.1a                       |
| 3. Add/Subtract Mixed Numbers                      | 6.6C.1a                       |
| 4. Ratios and Proportions                          | 6.6C.3a<br>6.6C.3b            |
| 5. Multiply/Divide Integers                        | 7.6C.1a                       |
| 6. Algebra—Solve One-Step Equations                | 6.1B.2b                       |
| 7. Compare/Order Fractions, Decimals, and Integers | 6.6A.1d<br>6.6A.1e            |

## 7th Grade

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|--|--------------------|
| 1. Order of Operations                     | 8.1B.1c            |
| 2. Multiply/Divide Fractions               | 7.6C.1b<br>7.6C.1c |
| 3. Powers, Exponents, and Roots            | 7.6C.1d            |
| 4. Algebra—Solve Two-Step Equations        | 7.1B.2b            |
| 5. Graphing Using the Slope Formula        | 8.1C.2a<br>8.1C.2b |
| 6. Simplifying Fractions w/Variables       | 1.1.3d*            |
| 7. Pythagorean Theorem and Right Triangles | 7.2A.2c<br>8.2A.2b |

## 8th Grade

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|---------------------------------------|--------------------|
| 1. Algebra—Solve Multi-Step Equations | 8.1B.2b            |
| 2. Add/Subtract Polynomials           | 1.1.3a*            |
| 3. Multiply/Divide Polynomials        | 1.1.3a*<br>1.1.3b* |
| 4. FOIL                               | 1.1.3a*            |
| 5. Factoring Polynomials              | 1.1.3c*            |
| 6. Graph Linear Equations             | 1.2.1*             |
| 7. Quadratic Formula                  | 1.1.3e*            |

\*Based on the July 2004 draft for VSC: Algebra/Data Analysis