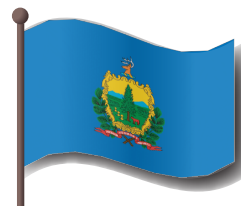




# Key Topics by Grade with Vermont Grade Expectations



## 3rd Grade

- |                                     |              |
|-------------------------------------|--------------|
| 1. Place Value to 10,000            | M3:1<br>M3:2 |
| 2. Multi-Digit Addition             | M3:4         |
| 3. Multi-Digit Subtraction          | M3:4         |
| 4. Multiplication by a Single Digit | M3:3<br>M4:3 |
| 5. Division by a Single Digit       | M4:3<br>M4:4 |
| 6. Geometry—Identifying Shapes      | M3:9         |
| 7. Basic Fractions                  | M3:1<br>M3:2 |

## 4th Grade

- |   |                      |
|---|----------------------|
| 1. Place Value to 1,000,000                   | M4:1<br>M4:2         |
| 2. Multi-Digit Multiplication                 | M4:4                 |
| 3. Long Division w/Single Digit Divisor       | M4:4<br>M5:3         |
| 4. Geometry—Area and Perimeter                | M4:14                |
| 5. Algebra—Find the Missing Number or Sign    | M4:22                |
| 6. Add/Subtract Fractions w/Like Denominators | M4:4                 |
| 7. Basic Decimals—Add/Subtract Decimals       | M4:2<br>M4:4<br>M5:4 |

## 5th Grade

- |  |                        |
|--|------------------------|
| 1. Graphing Coordinates                          | M5:18                  |
| 2. Long Division w/Multi-Digit Divisors          | M5:4                   |
| 3. Multiply/Divide Decimals                      | M6:4                   |
| 4. Geometry—Area of Parallelograms and Triangles | M5:14<br>M6:9<br>M6:14 |
| 5. Add/Subtract Integers                         | M6:4                   |
| 6. Add/Subtract Fractions w/Unlike Denominators  | M5:4                   |
| 7. Decimals, Fractions, and Percents             | M5:2                   |

## 6th Grade

- |  |                |
|--|----------------|
| 1. Factoring Numbers, GCF, and LCM                 | M6:8           |
| 2. Geometry—Circumference/Area of a Circle         | M6:14<br>M7:14 |
| 3. Add/Subtract Mixed Numbers                      | M6:4           |
| 4. Ratios and Proportions                          | M6:1<br>M7:4   |
| 5. Multiply/Divide Integers                        | M7:4           |
| 6. Algebra—Solve One-Step Equations                | M4:22          |
| 7. Compare/Order Fractions, Decimals, and Integers | M5:2<br>M6:2   |

## 7th Grade

- |  |                |
|--|----------------|
| 1. Order of Operations                     | M6:4<br>M7:4   |
| 2. Multiply/Divide Fractions               | M6:4           |
| 3. Powers, Exponents, and Roots            | M7:4           |
| 4. Algebra—Solve Two-Step Equations        | M5:22<br>M6:22 |
| 5. Graphing Using the Slope Formula        | M7:20<br>M8:20 |
| 6. Simplifying Fractions w/Variables       | M8:21          |
| 7. Pythagorean Theorem and Right Triangles | M8:10          |

## 8th Grade

- |                                       |                |
|---------------------------------------|----------------|
| 1. Algebra—Solve Multi-Step Equations | M7:22<br>M8:22 |
| 2. Add/Subtract Polynomials           | M8:21          |
| 3. Multiply/Divide Polynomials        | M8:21          |
| 4. FOIL                               | M8:21          |
| 5. Factoring Polynomials              | M8:21          |
| 6. Graph Linear Equations             | M8:20          |
| 7. Quadratic Formula                  | MHS:20         |