



Key Topics by Grade with New York State Learning Standards



3rd Grade

- Place Value to $10,000$
 - 3.N.5
 - 4.N.2-4
- Multi-Digit Addition
 - 3.N.18
- Multi-Digit Subtraction
 - 3.N.18
- Multiplication by a Single Digit
 - 3.N.7
 - 3.N.8
 - 3.N.19
- Division by a Single Digit
 - 3.N.22
- Geometry—Identifying Shapes
 - 3.G.1
- Basic Fractions
 - 3.N.10
 - 3.N.12
 - 3.N.13

4th Grade

- Place Value to $1,000,000$
 - 5.N.1-3
- Multi-Digit Multiplication
 - 4.N.18
 - 4.N.19
- Long Division w/Single Digit Divisor
 - 4.N.21
 - 4.N.22
- Geometry—Area and Perimeter
 - 4.G.3
 - 4.G.4
- Algebra—Find the Missing Number or Sign
 - 4.N.15
- Add/Subtract Fractions w/Like Denominators
 - 4.N.23
- Basic Decimals—Add/Subtract Decimals
 - 4.N.10
 - 4.N.24
 - 4.N.25

5th Grade

- Graphing Coordinates
 - 6.G.10
- Long Division w/Multi-Digit Divisors
 - 5.N.17
- Multiply/Divide Decimals
 - 5.N.23
- Geometry—Area of Parallelograms and Triangles
 - 5.G.6
 - 6.G.2
- Add/Subtract Integers
 - 7.N.13
- Add/Subtract Fractions w/Unlike Denominators
 - 5.N.19
- Decimals, Fractions, and Percents
 - 5.N.11
 - 6.N.16

6th Grade

- Factoring Numbers, GCF, and LCM
 - 5.N.13
 - 5.N.15
 - 7.N.8-10
- Geometry—Circumference/Area of a Circle
 - 6.G.7
- Add/Subtract Mixed Numbers
 - 5.N.20
 - 6.N.18
- Ratios and Proportions
 - 5.N.6
 - 5.N.7
 - 6.N.7
 - 6.N.10
- Multiply/Divide Integers
 - 7.N.12
- Algebra—Solve One-Step Equations
 - 5.A.4
 - 5.A.5
- Compare/Order Fractions, Decimals, and Integers
 - 5.N.9
 - 5.N.10

7th Grade

- Order of Operations
 - 7.N.11
- Multiply/Divide Fractions
 - 6.N.17
- Powers, Exponents, and Roots
 - 6.N.23-25
 - 7.N.15
- Algebra—Solve Two-Step Equations
 - 6.A.4
- Graphing Using the Slope Formula
 - 8.G.13
 - A.A.33
- Simplifying Fractions w/Variables
 - 8.A.10
 - A.A.12
- Pythagorean Theorem and Right Triangles
 - 7.G.5
 - 7.G.8
 - A.A.45

8th Grade

- Algebra—Solve Multi-Step Equations
 - 7.A.4
- Add/Subtract Polynomials
 - 8.A.7
 - A.A.13
- Multiply/Divide Polynomials
 - 8.A.6
 - 8.A.9
 - A.A.12
 - A.A.13
- FOIL
 - 8.A.8
- Factoring Polynomials
 - 8.A.10
 - 8.A.11
 - A.A.19
 - A.A.20
- Graph Linear Equations
 - 8.A.16
 - 8.G.15
- Quadratic Formula
 - A.A.27