



Key Topics by Grade with California State Standards



3rd Grade

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| 1. Place Value to 10,000 | 3-NS 1.1
3-NS 1.2
3-NS 1.3*
3-NS 1.5* |
| 2. Multi-Digit Addition | 3-NS 2.1* |
| 3. Multi-Digit Subtraction | 3-NS 2.1* |
| 4. Multiplication by a Single Digit | 3-NS 2.2*
3-NS 2.4*
3-NS 2.6
3-NS 3.3 |
| 5. Division by a Single Digit | 3-NS 2.3*
3-NS 2.7 |
| 6. Geometry—Identifying Shapes | 3-MG 2.1*
3-MG 2.2*
3-MG 2.3* |
| 7. Basic Fractions | 3-NS 3.1
3-NS 3.2* |

4th Grade

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| 1. Place Value to 1,000,000 | 4-NS 1.1*
4-NS 1.2* |
| 2. Multi-Digit Multiplication | 4-NS 3.2*
4-NS 3.3* |
| 3. Long Division w/Single Digit Divisor | 4-NS 3.2*
4-NS 3.4* |
| 4. Geometry—Perimeter and Area | 4-MG 1.1
4-MG 1.2
4-MG 1.4
4-AF 1.4 |
| 5. Algebra—Find the Missing Number or Sign | 4-AF 1.1 |
| 6. Add/Subtract Fractions w/Like Denominators | 4-NS 1.5
4-NS 1.7 |
| 7. Basic Decimals—Add/Subtract Decimals | 4-NS 1.2*
4-NS 1.6
4-NS 1.9* |

5th Grade

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| 1. Graphing Coordinates | 5-AF 1.4*
5-SDP 1.5* |
| 2. Long Division w/Multi-Digit Divisors | 5-NS 2.2* |
| 3. Multiply/Divide Decimals | 5-NS 2.1*
5-NS 2.2* |
| 4. Geometry—Area of Parallelograms and Triangles | 5-MG 1.1*
5-MG 2.1*
5-MG 2.2* |
| 5. Add/Subtract Integers | 5-NS 2.1* |
| 6. Add/Subtract Fractions w/Unlike Denominators | 5-NS 2.3* |
| 7. Decimals, Fractions, and Percents | 5-NS 1.2*
5-NS 1.5*
5-NS 2.4 |

6th Grade

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| 1. Factoring Numbers, GCF, and LCM | 6-NS 2.4* |
| 2. Geometry—Circumference/Area of a Circle | 6-MG 1.1*
6-MG 1.2 |
| 3. Add/Subtract Mixed Numbers | 6-NS 2.1
6-NS 2.4* |
| 4. Ratios and Proportions | 6-NS 1.2*
6-NS 1.3* |
| 5. Multiply/Divide Integers | 6-NS 2.3* |
| 6. Algebra—Solve One-Step Equations | 6-AF 1.1* |
| 7. Compare/Order Fractions, Decimals, and Integers | 6-NS 1.1* |

7th Grade

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| 1. Order of Operations | 7-NS 1.2*
7-AF 1.2 |
| 2. Multiply/Divide Fractions | 7-NS 1.2*
7-NS 1.5* |
| 3. Powers, Exponents, and Roots | 7-NS 2.4*
7-NS 1.1
7-NS 2.1 |
| 4. Algebra—Solve Two-Step Equations | 7-AF 4.1* |
| 5. Graphing Using the Slope Formula | 7-AF 3.3* |
| 6. Simplifying Fractions w/Variables | 7-AF 2.2
7-AF 1.4 |
| 7. Pythagorean Theorem and Right Triangles | 7-MG 3.3* |

8th Grade

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| 1. Algebra—Solve Multi-Step Equations | 8-AL 4.0* |
| 2. Add/Subtract Polynomials | 8-AL 10.0* |
| 3. Multiply/Divide Polynomials | 8-AL 10.0* |
| 4. FOIL | 8-AL 10.0* |
| 5. Factoring Polynomials | 8-AL 11.0 |
| 6. Graph Linear Equations | 8-AL 6.0* |
| 7. Quadratic Formula | 8-AL 14.0*
8-AL 20.0* |

*Key Standards (Mathematics Framework for California Public Schools) comprise a minimum of 70% of the California Standards Test