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| Kindergarten | Grade One | Grade Two | Grade Three | Grade Four | Grade Five | Grade Six | Grade Seven | Grade Eight |
| Know number names and the count sequence  Count to tell the number of objects  Compare numbers  Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from  Work with numbers 11-19 to gain foundations for place value | Represent and solve problems involving addition and subtraction  Understand and apply properties of operations and the relationship between addition and subtraction  Add and subtract within 20  Work with addition and subtraction equations  Extend the counting sequence  Understand place value  Use place value understanding and properties of operations to add and subtract  Measure lengths indirectly and by iterating length units | Represent and solve problems involving addition and subtraction  Add and subtract within 20  Understand place value  Use place value understanding and properties of operations to add and subtract  Measure and estimate lengths in standard units  Relate addition and subtraction to length | Represent and solve problems involving multiplication and division  Understand properties of multiplication and the relationship between multiplication and division  Multiply and divide within 100 Solve problems involving the four operations, and identify & explain patterns in arithmetic  Develop understanding of fractions as numbers  Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects  Geometric measurement: understand concepts of area and relate area to multiplication and to addition | Use the four operations with whole numbers to solve problems  Generalize place value understanding for multi-digit whole numbers  Use place value understanding and properties of operations to perform multi-digit arithmetic  Extend understanding of fraction equivalence and ordering  Build fractions from unit fractions by applying and extending previous understandings of operations  Understand decimal notation for fractions, and compare decimal fractions | Understand the place value system  Perform operations with multi-digit whole numbers and decimals to hundredths  Use equivalent fractions as a strategy to add and subtract fractions  Apply and extend previous understandings of multiplication and division to multiply and divide fractions  Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition  Graph points in the coordinate plane to solve real-world and mathematical problems\* | Apply and extend previous understandings of multiplication and division to divide fractions by fractions  Apply and extend previous understandings of numbers to the system of rational numbers  Understand ratio concepts and use ratio reasoning to solve problems  Apply and extend previous understandings of arithmetic to algebraic expressions  Reason about and solve one-variable equations and inequalities  Represent and analyze quantitative relationships between dependent and independent variables | Apply and extend previous understanding of operations with fractions to add, subtract, multiply, and divide rational numbers  Analyze proportional relationships and use them to solve real-world and mathematical problems  Use properties of operations to generate equivalent expressions  Solve real-life and mathematical problems using numerical and algebraic expressions and equations | Work with radical and integer exponents  Understand the connections between proportional relationships, lines, and linear equations  Analyze and solve linear equations and pairs of simultaneous linear equations  Define, evaluate, and compare functions  Use functions to model relationships between quantities\* |

Overview of the Standards Chapters