

K-2 Lessons

| Counting and Cardinality | | |
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| Placement Grade | Lesson Title | Lesson Description |
| K | Counting Numbers 1–5 | Learn to recognize that cardinal numbers represent a quantity (numbers 1-5). |
| K | Counting Numbers 1–10 | Learn to recognize that cardinal numbers represent a quantity (numbers 0-10). |
| K | Writing Numbers 0–10 | Learn to write numbers from 0 to 10. Represent a number of objects with a written number 0-10. |
| K | Count How Many (1–5) | Learn to count 1 to 5 objects arranged in different ways and counted in different orders. |
| K | Count How Many (6–10) | Learn to count 6 to 10 objects arranged in different ways and counted in different orders. |
| K | Count Objects up to 20 | Learn to count up to 20 objects arranged in a line, rectangular array, or circle. Learn to count up to 10 objects in a scattered configuration. |
| K | Count Out a Number of Objects | Given a number from 1-20, learn to count out that many objects. |
| K | Writing Numbers 10–20 | Learn to write numbers from 10 to 20. Represent a number of objects with a written number 0-20. |
| K | Counting By 1 | Learn to understand that each successive number name refers to a quantity that is one more. |
| K | Count On from a Number Other Than 1 | Learn to count on from a given number other than 1. |
| K | Compare Two Groups of Objects | Learn to compare groups of objects to determine more/greater/less/fewer. |
| K | Count How Many More | Learn to compare groups to determine how many more objects are in one group than another. |
| K | Compare Groups of Objects by Size | Learn to identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. |
| K | Compare Two Numbers (Numerals) | Learn to compare two numbers from 1 to 10. |
| K | Order Numbers 1–10 | Learn to determine which number is missing to complete a sequence of numbers 1-10. |
| Operations and Algebraic Thinking | | |
| K | Using Models to Subtract | Learn to subtract within 10 given a picture of objects. |
| K | Addition Number Sentences | Learn to write an addition number sentence. |
| K | Subtraction Number Sentences | Learn to write a subtraction number sentence. |
| K | Adding Within 10 | Learn to solve addition word problems within 10. |
| K | Subtracting Within 10 | Learn to solve subtraction word problems within 10. |

| Placement Grade | Lesson Title | Lesson Description |
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| K | Decomposing Numbers Less than 10 | Learn to decompose numbers less than 10 in pairs in more than one way using objects or drawings, and record each decomposition with an equation or drawing. |
| K | Decomposing 10 | Learn to decompose the number 10 in pairs in more than one way using objects or drawings, and record each decomposition with an equation or drawing. |
| K | Making a 10 | Learn to find the number that makes 10 when added to a given number. |
| K | Fluently Add and Subtract within 5 | Learn to count on and count back to gain fluency in adding and subtracting within 5. |
| 1 | Add/Subtract to Solve Word Problems | Learn to solve addition and subtraction word problems within 20. Includes add to, with change unknown, and take from, with change unknown. |
| 1 | Solving Comparison Word Problems | Learn to solve comparison word problems within 20 using addition and subtraction. Includes comparing amounts with a bigger unknown, and comparing amounts with a smaller unknown. |
| 1 | Adding 3 Numbers (up to 10) | Learn to find the sum of three one-digit numbers with sums equal to or less than 10 using multiple strategies. |
| 1 | Adding 3 Numbers (up to 20) | Learn to find the sum of three one-digit numbers with sums equal to or less than 20 using multiple strategies. |
| 1 | Using Strategies to Add | Learn to solve addition problems using properties and strategies. |
| 1 | Using Strategies to Subtract | Learn to subtract by relating subtraction to addition. |
| 1 | Using Addition to Subtract | Learn to use addition to solve subtraction problems. |
| 1 | Counting On to Add | Learn to solve addition problems within 20 by counting on from a known amount. |
| 1 | Counting Back to Subtract | Learn to solve subtraction problems within 20 by counting back from a known amount. |
| 1 | Decomposing to Get a Ten – Addition | Learn to add within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as decomposing a number leading to a ten and creating equivalent but easier or known sums. |
| 1 | Decomposing to Get a Ten – Subtraction | Learn to subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as decomposing a number leading to a ten and creating equivalent but easier or known sums. |
| 1 | Understanding Equations (Add/Subtract) | Learn to work with addition and subtraction equations. Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. |
| 1 | Finding Missing Numbers (Addition) | Learn to solve addition equations with an unknown number represented by a symbol. |
| 1 | Finding Missing Numbers (Subtraction) | Learn to solve subtraction equations with an unknown number represented by a symbol. |
| 2 | Adding with Models | Learn to solve one-step addition word problems (with initial amount unknown) using equations, base-ten blocks, and number lines. |

| Placement Grade | Lesson Title | Lesson Description |
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| 2 | Subtracting with Models | Learn to solve one-step subtraction word problems (with initial amount unknown) using equations, base-ten blocks, and number lines. |
| 2 | Add to Solve Real-World Problems | Learn to represent and solve problems involving addition. Use addition within 100 to solve one- and two-step word problems involving situations of adding to, putting together, e.g., by using models, drawings, and equations with a symbol for the unknown number to represent the problem. |
| 2 | Subtract to Solve Real-World Problems | Learn to represent and solve problems involving subtraction. Use subtraction within 100 to solve one- and two-step word problems involving situations of taking from, taking apart, and comparing, e.g., by using models, drawings, and equations with a symbol for the unknown number to represent the problem. |
| 2 | Using Mental Math to Add and Subtract | Learn to use mental math strategies to add and subtract within 20. |
| 2 | Using Addition with Arrays | Learn to use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns. Write an equation to express the total as a sum of equal addends. |
| Number and Operations Base Ten | | |
| K | Composing Numbers 11–19 | Learn to compose numbers 11-19 by combining a group of 10 with a number less than ten. Record each composition with a drawing or equation. |
| K | Decomposing Numbers 11–19 | Learn to decompose numbers 11-19 by making a group of 10 and amount of ones left over. Record each decomposition with a drawing or equation. |
| 1 | Understanding Numbers (11–19) | Learn that a teen number is made up of one ten and some leftover ones. |
| 1 | Write and Expand Numbers up to 120 | Learn to write numbers up to 120 in standard and expanded forms. |
| 1 | Understanding Tens | Learn that a ten is a bundle of 10 ones. Learn that the decade numbers are tens with zero ones. |
| 1 | Comparing Numbers with Symbols | Learn to compare two 2-digit numbers using the symbols for less than, greater than, and equal to. |
| 1 | Adding within 100 | Learn to add within 100, including adding a two-digit number and a one-digit number using concrete models or drawings and strategies based on place value and properties of operations. |
| 1 | Explaining How to Add | Learn to add within 100, including adding a two-digit number and a two-digit number using concrete models or drawings and strategies based on place value and properties of operations. |
| 1 | Finding 10 More and 10 Less | Learn to find 10 more and 10 less than a number, without having to count. Explain the reasoning used. |

| Placement Grade | Lesson Title | Lesson Description |
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| 1 | Subtracting Multiples of 10 | Learn how to subtract multiples of 10 using ten frames and a hundreds chart. |
| 2 | Counting by 2, 5, and 10 | Learn to count by 2, 5, and 10. |
| 2 | Counting by 25, 50, and 100 | Learn to count by 25, 50, and 100. |
| 2 | Understanding Hundreds | Learn that the three digits of a 3-digit number represent amounts of hundreds, tens, and ones. |
| 2 | Writing and Expanding Numbers to 1,000 | Learn to write and expand numbers to 1,000. |
| 2 | Comparing 3-Digit Numbers | Learn to compare two 3-digit numbers based on the meanings of the hundreds, tens, and ones digits, using comparison symbols. |
| 2 | Comparing 2- or 3-Digit Numbers | Learn to compare two 2-digit or 3-digit numbers based on the meanings of the hundreds, tens, and ones digits, using comparison symbols. |
| 2 | Add to Solve Problems (Regroup) | Learn to add numbers with regrouping. |
| 2 | Subtract to Solve Problems (Regroup) | Learn to subtract numbers with regrouping. |
| 2 | Using Strategies to Add within 100 | Learn to use strategies to add numbers within 100. |
| 2 | Subtracting within 100 | Learn to use strategies to subtract within 100. |
| 2 | Adding up to Four 2-Digit Numbers | Learn to add up to four 2-digit numbers using strategies based on place value and properties of operations. |
| 2 | Using Models to Add within 1,000 | Learn to use models such as base-ten blocks and number lines to add within 1,000. |
| 2 | Using Models to Subtract within 1,000 | Learn to use models such as base-ten blocks and number lines to subtract within 1,000. |
| 2 | Mentally Adding 10 or 100 | Learn to mentally add 10 or 100 using place value understanding. |
| 2 | Mentally Subtracting 10 or 100 | Learn to mentally subtract 10 or 100 using place value understanding. |
| 2 | Add/Subtract Strategies | Learn to explain why addition and subtraction strategies work, using place value and properties of operations. |
| Measurement and Data | | |
| K | Comparing Objects by Length | Learn to compare the length of objects. |
| K | Describing Objects | Learn to describe objects. |
| 1 | Order and Compare Objects by Length | Learn to order three objects by length. Learn to compare the lengths of two objects using a third object. |
| 1 | Measuring with Nonstandard Units | Learn to use non-standard units to estimate and measure lengths. |
| 2 | Using Tools to Measure Length | Learn to measure the length of an object by using the appropriate measuring tools. |
| 2 | Measuring Length with Different Units | Learn to measure the length of an object using different units and to describe how the measurements relate to the size of the unit. |

| Placement Grade | Lesson Title | Lesson Description |
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| 2 | Estimating Lengths (in., ft, cm, m) | Learn to estimate lengths using standard and metric units (in, ft, cm, m). |
| 2 | Comparing Lengths (Standard) | Learn to estimate and measure the length of an object in inches. Use inches to find the difference in length of two objects. |
| 2 | Comparing Lengths (Metric) | Learn to measure the length of an object in centimeters. Use centimeters to find the difference in length of two objects. |
| 2 | Solving Word Problems about Length | Learn to solve word problems about length using drawings and equations with a symbol for the unknown number to represent the problem. |
| 2 | Use a Number Line to Add and Subtract | Learn to use a number line to add and subtract numbers within 100. |
| 2 | Tell and Write Time to the 5 Minutes | Learn how to tell and write time to the nearest five minutes using an analog clock. |

3-5 Lessons

| Operations and Algebraic Thinking | | |
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| K | Addition Equations | Learn to add using objects and addition equations to find sums up to 20. |
| K | Subtraction Equations | Learn to subtract using objects and subtraction equations to find differences less than 20. |
| K | Add/Subtract to Solve Problems | Learn to solve addition and subtraction word problems within 20. |
| K | Decompose – Both Sides of Equals Sign | Learn to compose and decompose numbers up to 20 to the left or right of the equal sign. |
| 1 | Solve Problems Involving Three Numbers | Learn to solve addition word problems involving three whole numbers (sum is less than or equal to 50). |
| 1 | Use Properties and Strategies to Add | Learn to solve addition problems using properties and strategies. |
| 1 | Use Strategies to Subtract | Learn to subtract by relating subtraction to addition. |
| 1 | Using Addition to Find an Unknown | Learn subtraction as an unknown-addend problem. |
| 1 | Count On and Back to Add and Subtract | Learn to relate counting to addition and subtraction. |
| 1 | Identify True/False Equations | Learn to determine whether addition and subtraction equations are true and false. |
| 1 | Finding the Unknown in Equations | Learn to find the unknown in addition and subtraction equations. |
| 2 | Determining Odd and Even Numbers | Learn to determine whether a given number is odd or even. |

| Placement Grade | Lesson Title | Lesson Description |
|-----------------|---------------------------------------|---|
| 2 | Understanding Addition through Arrays | Learn to use addition to find the total number of objects in an array and representing an array with an addition equation. |
| 2 | Solving Word Problems within 1,000 | Learn to solve one-step addition and subtraction word problems within 1,000 using standard algorithm. |
| 3 | Introduction to Multiplication I | Represent and solve problems involving multiplication. Describe a context in which a total number of objects can be expressed as multiplication equation. |
| 3 | Introduction to Multiplication II | Represent and solve problems involving multiplication. Describe a context in which a total number of objects can be expressed as multiplication equation. |
| 3 | Introduction to Division I | Represent and solve problems involving division. Interpret quotients of whole number as the either the number of objects in each share when objects are partitioned equally, or as the number of shares when objects are partitioned into equal shares. |
| 3 | Introduction to Division II | Represent and solve problems involving division. Interpret quotients of whole number as the either the number of objects in each share when objects are partitioned equally, or as the number of shares when objects are partitioned into equal shares. |
| 3 | Multiplying with Arrays | Learn to work with equal groups of objects to gain foundations for multiplication. Use addition and/or multiplication to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the product. |
| 3 | Multiplication Word Problems | Represent and solve problems involving multiplication. Use multiplication within 100 to solve word problems in situations involving equal groups by using drawings and equations with a symbol for the unknown number to represent the problem. |
| 3 | Division Word Problems | Represent and solve problems involving division. Use division within 100 to solve word problems in situations involving equal groups by using drawings and equations with a symbol for the unknown number to represent the problem. |
| 3 | Multiply and Divide to Solve Problems | Learn to solve a multi-step word problem using multiplication and division. |
| 3 | Find a Missing Number (Multiply) | Determine the unknown whole number in a multiplication equation relating three whole numbers. |
| 3 | Find a Missing Number (Divide) | Determine the unknown whole number in a division equation relating three whole numbers. |
| 3 | Properties of Multiplication | Understand properties of multiplication and apply these properties as strategies to multiply. |
| 3 | Properties of Division | Understand properties of division and apply these properties as strategies to divide. |
| 3 | Understand Division as Unknown Factor | Learn to understand division as an unknown-factor problem. |
| 3 | Use Strategies to Multiply within 100 | Learn to understand multiplication and use strategies to fluently multiply within 100. |

| Placement Grade | Lesson Title | Lesson Description |
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| 3 | Using Strategies to Divide within 100 | Learn to understand division and use strategies to fluently divide within 100. |
| 3 | Solving 2-Step Problems I | Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. |
| 3 | Solving 2-Step Problems II | Solve two-step word problems using the four operations. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. |
| 3 | Identify Patterns (Addition) | Learn to identify arithmetic patterns using an addition table. |
| 3 | Identify Patterns (Multiplication) | Learn to identify arithmetic patterns using a multiplication table, and explain them using properties of operations. |
| 4 | Using Multiplication to Solve Problems | Learn to model a multiplicative comparison using a multiplication equation. |
| 4 | Interpreting Multiplication Equations | Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations. |
| 4 | Describing Multiplication Situations | Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations. |
| 4 | Using Division to Compare | Learn to use division to make multiplicative comparisons. |
| 4 | Interpreting Remainders | Solve one-step and two-step word problems in which remainders must be interpreted. |
| 4 | Represent Situations with Equations | Solve multistep word problems. Represent these problems using equations with a letter standing for the unknown quantity. |
| 4 | Solving Multistep Word Problems | Solve multistep word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers. |
| 4 | Patterns in Input-Output Tables | Learn to find a pattern and rule in an input-output table. |
| 5 | Using Variables | Learn to write and evaluate algebraic expressions. |
| 5 | Evaluating Numerical Expressions | Learn to evaluate expressions with symbols using order of operations. |
| 5 | Writing Simple Expressions | Learn to write simple expressions without evaluating. |
| 5 | Solving Equations with Addition | Learn to solve one-step equations with whole numbers, decimals, and fractions involving addition. |
| 5 | Solving Equations with Subtraction | Learn to solve one-step equations with whole numbers, decimals, and fractions involving subtraction. |
| Numbers and Operations in Base Ten | | |
| K | Compose/Decompose Numbers (11–19) | Learn to compose and decompose numbers up to 19. |
| 1 | Tens and Ones in Numbers (11–19) | Learn to understand tens and ones in teen numbers. |
| 1 | Comparing Numbers | Learn to compare two 2-digit numbers using comparison symbols. |

| Placement Grade | Lesson Title | Lesson Description |
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| 1 | Add/Subtract (Models and Place Value) | Learn to add and subtract within 100 using models and place value. |
| 1 | Mentally Add/Subtract by Tens | Learn to mentally find 10 more or 10 less from any number up to 100. |
| 2 | Understanding Place Value to Hundreds | Learn to understand the three digits of a three-digit number represent amounts of hundreds, tens, and ones. |
| 2 | Writing and Expanding Numbers to 1,000 | Learn to write and expand numbers to 1,000. |
| 2 | Comparing 3- and 4-Digit Numbers | Learn to compare three-digit and four-digit numbers using $>$, $<$, and $=$. |
| 2 | Fluently Add/Subtract within 100 | Learn to add and subtract within 100 fluently using strategies based on properties of operations and the relationship between addition and subtraction. |
| 2 | Adding Four 2-Digit Numbers | Learn to add up to four 2-digit numbers. |
| 2 | Add/Subtract up to 1,000 (Regrouping) | Learn to add and subtract within 1,000 involving regrouping. |
| 2 | Mentally Add/Subtract 10 or 100 | Learn to mentally add and subtract 10 or 100 from numbers 100-900. |
| 3 | Rounding to Nearest 10 | Round numbers up to the ten-thousands to the nearest ten. Use number lines and knowledge of place value. |
| 3 | Rounding to Nearest 100 | Round numbers up to the ten-thousands to the nearest hundred. Use number lines and knowledge of place value. |
| 3 | Add/Subtract Numbers (No Regrouping) | Learn to add and subtract whole numbers within 1,000 without regrouping. |
| 3 | Add/Subtract Numbers (with Regrouping) | Learn to add and subtract whole numbers within 1,000 with regrouping. |
| 3 | Multiply by a Multiple of Ten I | Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations. |
| 3 | Multiply by a Multiple of Ten II | Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations. |
| 4 | Exploring Base Ten I | Multiply by 10 and 100. Generalize place value understanding for multi-digit whole numbers. Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. |
| 4 | Exploring Base Ten II | Divide by 10 and 100. Generalize place value understanding for multi-digit whole numbers. Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. |
| 4 | Write and Expand Numbers to 1,000,000 | Learn to read numbers to 1,000,000 and to write them in standard and expanded forms. |
| 4 | Writing Numbers in Standard Form | Learn to write numbers up to 999,999,999 from word form to standard form. |
| 4 | Expanding Numbers up to Ten Million | Learn to expand whole numbers up to 9,999,999. |

| Placement Grade | Lesson Title | Lesson Description |
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| 4 | Compare Numbers up to 1,000,000 | Learn to compare multi-digit numbers up to 1,000,000. |
| 4 | Using Place Value to Round | Use place value understanding to round multi-digit whole number to the nearest ten, hundred, or thousand. |
| 4 | Rounding Whole Numbers | Learn to round whole numbers to a given place-value position through the hundred thousands place. |
| 4 | Adding Multi-digit Numbers | Learn to add multi-digit whole numbers using place value and the standard algorithm. |
| 4 | Adding 4-Digit Numbers | Learn to add 4-digit whole numbers. |
| 4 | Subtracting Multi-digit Numbers | Learn to subtract multi-digit whole numbers using place value and the standard algorithm. |
| 4 | Subtracting Across Zeros | Learn to subtract 4-digit whole numbers with multiple zeros. |
| 4 | Multiply One-Digit Numbers (Models) | Learn to multiply a multi-digit whole number by a one-digit whole number using base ten blocks and area models. |
| 4 | Multiply Two-Digit Numbers (Models) | Learn to multiply two-digit by two-digit numbers using base ten blocks and area models. |
| 4 | Strategies for Dividing I | Find whole-number quotients and remainders with one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. |
| 4 | Strategies for Dividing II | Find whole-number quotients and remainders with one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, standard algorithms, and models. |
| 5 | Understanding Place Value | Interactive Exploration. Learn that a digit in one place represents 10 times as much as it represents in the place to its right and one-tenth of what it represents in the place to its left. |
| 5 | Multiplying by Powers of 10 | Learn to use the patterns in the number of zeros in a product when multiplying by a power of 10, and express powers of 10 using exponents. |
| 5 | Read/Write Decimals to Thousandths | Learn to read and write numbers to the thousandths in written and standard form and show equivalencies between the two. |
| 5 | Read, Write, and Expand Decimals | Learn to read, write, expand decimals to thousandths. |
| 5 | Decimals on Number Lines | Learn to identify the number and place on the number line to signify given decimals. |
| 5 | Comparing Decimals to Thousandths | Learn to compare decimals to the thousandths using symbols. |
| 5 | Rounding Decimals | Learn to round decimals to any place. |
| 5 | Rounding Decimals to Identified Place | Learn to round decimals to an identified place value and to the nearest half or whole number. |

| Placement Grade | Lesson Title | Lesson Description |
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| 5 | Multiplying Whole Numbers (Algorithm) | Learn to multiply multi-digit whole numbers using the standard algorithm. |
| 5 | Multiplying up to 3-Digit by 2-Digit | Learn to solve multiplication problems that involve two-digit by two-digit multiplication as well as three-digit by two-digit multiplication. |
| 5 | Dividing by 2-Digit Divisors | Learn to solve problems using up to three-digit dividends and two-digit divisors, and check the accuracy of the quotients using multiplication. |
| 5 | Dividing 3- and 4-Digit Numbers | Learn to divide 3-digit by 2 digit with no remainders and 4-digit by 2 digit with no remainder. |
| 5 | Estimating Decimal Sums/Differences | Learn to estimate sums and differences with decimals. |
| 5 | Add/Subtract Decimals | Learn to add and subtract decimal to the hundredths using strategies and relate to a written method or standard algorithm. |
| 5 | Multiply/Divide Decimals | Learn to multiply and divide decimals to the hundredths using strategies and relate to a written method. |
| 5 | Dividing Decimals | Learn to divide decimals with decimals and whole numbers in both the divisor and dividend. |
| 5 | Estimate Decimal Products/Quotients | Learn to estimate products and quotients using decimals. |
| 5 | Comparing Fractions | Learn to compare and order fractions. |
| Measurement and Data | | |
| 1 | Measuring Lengths of Objects (No Gaps) | Learn to measure lengths of objects with no gaps or overlaps. |
| 1 | Tell Time to the Hour and Half Hour | Learn to tell time to the hour and half hour. |
| 2 | Measuring the Length of Objects | Learn to measure the length of objects using centimeters and inches. |
| 3 | Tell/Write Time to Nearest Minute | Learn to tell and write time to the nearest minute. |
| 3 | Solve Problems (Elapsed Time) | Learn to solve problems of elapsed time using a number line. |
| 3 | Estimating and Measuring Volume | Learn to estimate volumes of objects in liters and milliliters by comparing to benchmark objects. |
| 3 | Solving Problems (Mass and Volume) | Learn to solve real-world problems involving mass in kilograms and grams, and volume in liters. |
| 3 | Find Area of Rectangles (Unit Squares) | Learn to measure the area of a rectangle using unit squares. |
| 3 | Measure Area by Counting Unit Squares | Learn to find the area of a figure by counting unit squares. |
| 3 | Use Tiles to Find Area of a Rectangle | Learn to find the area of a rectangle by tiling and by multiplying the side lengths. |
| 3 | Multiply to Find Area of a Rectangle | Learn to find the area of a rectangle by multiplying the length and width. |
| 3 | Decompose Rectangles to Find Area | Learn to find the area of a rectangle by dividing it into two smaller rectangles. |

| Placement Grade | Lesson Title | Lesson Description |
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| 3 | Decompose Shapes to Find Area | Learn to find area by decomposing composite shapes into rectangles and adding the areas. |
| 4 | Find Perimeter by Measuring Lengths | Learn to find the perimeter by measuring the side lengths and adding the side lengths together. |
| 4 | Finding Area by Counting Square Units | Learn to find the area by counting half and whole square units. |
| 4 | Solving Area Problems (Formula) | Learn to apply the area formula for rectangles to solve real world problems. |
| 4 | Find Lengths Using Area and Perimeter | Learn to find the side lengths of a rectangle using the given area and perimeter of the rectangle. |
| 4 | Converting Customary Units of Length | Learn to find the area by counting half and whole square units. |
| 4 | Converting Customary Units of Capacity | Learn to convert customary units of capacity. |
| 4 | Converting Customary Units of Weight | Learn to convert customary units of weight and mass. |
| 4 | Converting Metric Units of Length | Learn to convert metric units of length. |
| 4 | Multiplying and Dividing Money | Learn to solve multiplication and division problems involving money. |
| 4 | Adding/Subtracting Decimals | Learn to add and subtract decimals to the thousandths using standard algorithm. |
| 4 | Adding and Subtracting Money | Learn to solve addition and subtraction problems involving money. |
| 5 | Solving Customary Length Problems | Learn to apply formulas to solve customary length problems, identify the correct tools to use to solve customary length problems, and apply concepts of estimation to arrive at answers. |
| 5 | Solving Customary Weight Problems | Learn to apply formulas to solve customary weight problems, identify the correct tools to use to solve customary weight problems, and apply concepts of estimation to arrive at answers. |
| 5 | Solving Customary Capacity Problems | Learn to apply formulas to solve customary capacity problems, identify the correct tools to use to solve customary capacity problems, and apply concepts of estimation to arrive at answers. |
| 5 | Solving Customary Temperature Problems | Learn to apply formulas involving temperatures in Fahrenheit degrees to solve real-life problems. |
| 5 | Metric System (Multiply/Divide) | Learn about the metric system and how multiplying and dividing by ten affects the placement in the system. |
| 5 | Solving Metric Length Problems | Learn to apply formulas to solve metric length problems, identify the correct tools to use to solve metric length problems, and apply concepts of estimation to arrive at answers. |
| 5 | Solving Metric Weight Problems | Learn to apply formulas to solve metric weight problems, identify the correct tools to use to solve metric weight problems, and apply concepts of estimation to arrive at answers. |

| Placement Grade | Lesson Title | Lesson Description |
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| 5 | Solving Metric Capacity Problems | Learn to apply formulas to solve metric capacity problems. identify the correct tools to use to solve metric capacity problems, and apply concepts of estimation to arrive at answers. |
| 5 | Solving Metric Temperature Problems | Learn to apply formulas involving temperatures in Celsius degrees to solve real-life problems. |
| 5 | Volume of Rectangular Prisms (Units) | Learn to find the volume of a rectangular prism by counting unit cubes. |
| 5 | Finding Volume of Rectangular Prisms | Learn to find the volume of a rectangular prism by multiplying the edge lengths, or by multiplying the area of the base by the height. |
| 5 | Volume of Rectangular Prisms (Formula) | Learn to find the volume of a rectangular prism by applying the formulas $V = l \times w \times h$ and $V = B \times h$. |
| 5 | Finding the Volume of Solids | Learn to find the volume of cubes and rectangular prisms. |
| 5 | Finding Volume of Solid Figures | Learn to find the volume of a solid figure composed of two rectangular prisms. |
| Geometry | | |
| K | Describe and Compose Solids | Learn to describe solids and compose solids. |
| 1 | Compose Shapes to Make New Shapes | Learn to compose shapes to make new composite shapes. |
| 1 | Partition Shapes (Halves and Fourths) | Learn to partition circles, squares, and rectangles into halves and fourths. |
| 2 | Building Squares and Rectangles | Learn to determine the total number of same-size squares in a rectangle partitioned into rows and columns. |
| 2 | Partition Shapes/Describe Equal Shares | Learn to partition shapes and describe the equal shares. |
| 4 | Identify Points, Lines, Segments, Rays | Learn to identify points, lines, line segments, rays, and angles. |
| 4 | Identifying and Classifying Angles | Learn to identify and classify angles as right, obtuse, or acute. |
| 4 | Classifying Polygons by Attributes | Learn to identify and classify polygons, regular polygons, and non-polygons and their attributes. |
| 5 | Identifying Lines | Learn to identify parallel, perpendicular, and intersecting lines. |
| 5 | Identifying Ordered Pairs | Learn to identify ordered pairs on coordinate plane, and locate and plot points in all four quadrants. |
| Number and Operations - Fractions | | |
| 3 | Understanding Fractions of a Whole | Learn to recognize fractions as part of a whole and understand the meaning of the numerator and the denominator. |

| Placement Grade | Lesson Title | Lesson Description |
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| 3 | Represent Fractions on a Number Line | Learn to identify the fraction shown by a point on a number line and learn how to place a fraction on a number line. |
| 3 | Understand Equivalent Fractions | Learn to understand two fractions as equivalent if they are the same size, or the same point on a number line. |
| 3 | Simplify Fractions to Whole Numbers | Simplify improper fractions to whole numbers using models. |
| 3 | Fractions and Equivalent Whole Numbers | Express whole numbers as fractions and recognize fractions that are equivalent to whole numbers. |
| 3 | Comparing Fractions (Like) | Learn to compare two fractions with the same numerator or the same denominator using fraction models. |
| 4 | Generating Equivalent Fractions | Learn to generate equivalent fractions using multiplication and division. |
| 4 | Finding Equivalent Fractions | Learn to recognize and generate equivalent fractions using multiplication or division. |
| 4 | Comparing Fractions Using Models | Learn to compare two fractions using fraction models. |
| 4 | Comparing and Ordering Fractions | Learn to compare and order fractions with like and unlike denominators. |
| 4 | Adding and Subtracting Fractions | Learn how adding fractions is joining parts related to the same whole, and how subtracting fractions is separating parts related to the same whole. |
| 4 | Decomposing Fractions | Decompose a fraction into a sum of fractions with the same denominator in more than one way using a visual fraction model. |
| 4 | Decomposing Improper Fractions | Decompose an improper fraction into a sum of fractions with the same denominator in more than one way and record each decomposition with an equation. |
| 4 | Add/Subtract Mixed Numbers (Like) | Learn to add and subtract mixed numbers with like denominators. |
| 4 | Add Fractions with Like Denominators | Learn to add fractions with like denominators. |
| 4 | Adding Fractions (10 and 100) | Learn to add two fractions with respective denominators of 10 and 100. |
| 4 | Adding Fractions (Like) | Solve word problems involving addition of fractions with like denominators by using fraction models and equations. |
| 4 | Subtracting Fractions (Like) | Solve word problems involving subtraction of fractions with like denominators by using fraction models and equations. |
| 4 | Adding a Fraction Multiple Times | Add a fraction multiple times. |
| 4 | Fraction Multiples | Recognize multiples of a fraction. |
| 4 | Multiply Fraction by a Whole – Models | Match a visual model to a multiplication equation involving multiplying a fraction by a whole number. |
| 4 | Multiply Fraction by Whole – Multiple | Multiply a fraction by a whole number using previous knowledge of multiples. |
| 4 | Multiply Fraction by Whole Number I | Solve word problems involving multiplication of a fraction by a whole number by using visual fraction models to represent the problem. |

| Placement Grade | Lesson Title | Lesson Description |
|-----------------|--|--|
| 4 | Multiply Fraction by Whole Number II | Solve word problems involving multiplication of a fraction by a whole number by using an equation to represent the problem. |
| 4 | Equivalent Tenths and Hundredths | Express a fraction with denominator 10 as an equivalent fraction with denominator 100. |
| 4 | Writing Decimals as Fractions | Learn to express a decimal as a fraction with a denominator of 10 or 100. |
| 4 | Comparing Decimals to Hundredths | Learn to compare two decimal numbers up to the hundredths. |
| 4 | Comparing and Ordering Decimals | Learn to compare and order decimals up to the thousandths place. |
| 5 | Equivalent Fractions | Learn to find equivalent forms of fractions not including mixed numbers. |
| 5 | Add Fractions Like/Unlike Denominators | Learn to add fractions, not including mixed numbers, with like and unlike denominators. |
| 5 | Subtract Fractions (Like/Unlike) | Learn to subtract fractions, not including mixed numbers, with like and unlike denominators. |
| 5 | Adding Mixed Numbers | Learn to add mixed numbers with and without regrouping. |
| 5 | Subtracting Mixed Numbers | Learn to subtract mixed numbers with and without regrouping. |
| 5 | Add/Subtract Fractions with Models | Learn to add and subtract fractions with unlike denominators. |
| 5 | Add/Subtract Mixed Numbers (Unlike) | Learn to add and subtract mixed numbers with unlike denominators using models. |
| 5 | Add/Subtract Fractions (Unlike) | Learn to solve real-world problems involving adding and subtracting fractions with unlike denominators. |
| 5 | Interpreting Fractions as Division | Learn to interpret a fraction as representing division. Solve real-world problems involving dividing whole numbers where the answer is a fraction or mixed number. |
| 5 | Multiplying Fractions | Learn to multiply a fraction or whole number by a fraction. |
| 5 | Multiply Fractions (No Mixed) | Learn to multiply fractions, not including mixed numbers, and simplify answers. |
| 5 | Multiply Fractions with an Area Model | Learn to represent the product of two fractions using an area model. |
| 5 | Multiply Whole Numbers by Fractions | Learn to determine the effect of multiplying a whole number by a fraction less than 1 and by a fraction greater than 1. |
| 5 | Multiply Fractions and Mixed Numbers | Solve problems involving multiplying a fraction by a mixed number, and multiplying a mixed number by a mixed number. |
| 5 | Dividing with Unit Fractions | Learn to model dividing whole numbers by unit fractions and unit fractions by whole numbers. |
| 5 | Dividing Fractions (No Mixed) | Learn to divide fractions, not including mixed numbers, by using reciprocals and simplify answers. |
| 5 | Dividing Fractions | Learn to solve real-world problems involving dividing with unit fractions. |