

3rd Grade Mathematics Learning Targets By Unit

INSTRUCTIONAL UNIT	PA CORE STANDARD ADDRESSED	LEARNING TARGETS
UNIT 1: NUMBERS TO 10,000	CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.	I can use base ten blocks to count, read and write numbers to 10,000. I can use a place-value chart to read, write and represent numbers to 10,000. I can read and write numbers to 10,000 in standard forms, expanded form, and word form. I can use base ten blocks to compare and order numbers. I can use place value to compare and order numbers in ascending and descending order.
UNIT 2: MENTAL MATH AND ESTIMATION	CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.	I can add two-digit numbers mentally with and without regrouping. I can subtract two-digit numbers mentally with and without regrouping. I can use different strategies to add two-digit numbers close to 100 mentally. I can round numbers to estimate sums and differences. I can use front-end estimation to estimate sums and differences.
UNIT 3: ADDITION TO 10,000	CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic. CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.	I can add greater numbers without regrouping. I can add greater numbers with regrouping in the hundreds. I can add greater numbers with regrouping in the ones, tens, and hundreds.
UNIT 4: SUBTRACTION TO 10,000	CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.	I can use base-ten blocks to subtract without regrouping I can use base-ten blocks to subtract with regrouping I can write subtraction number sentences. I can solve subtraction word problems.
UNIT 5: USING BAR MODELS: ADDITION AND SUBTRACTION	CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.	I can use bar modeling to solve real-world addition and subtraction problems.
UNIT 6: MULTIPLICATION TABLES 6, 7, 8, 9,	CC.2.2.3.A.1 Represent and solve problems involving multiplication and division. CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division. CC.2.2.3.A.3 Demonstrate multiplication and division fluency. CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain	I can use multiplication properties. I can understand multiplication by using array models. I can practice multiplication facts of 6. I can practice multiplication facts of 7. I can understand multiplication using number lines and area models. I can practice multiplication facts of 8. I can understand multiplication by using array models and area models. I can practice multiplication facts of 9. I can divide to find the number of items in each group. I can understand related multiplication and division facts. I can write division sentences for real-world problems. I can divide to find the number of groups I can understand related multiplication and division facts

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	<p>patterns in arithmetic. CC.2.4.3.A.4 Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.</p>	I can write division sentences for real-world problems.
<p>UNIT 7: MULTIPLICATION</p>	<p>CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>CC.2.2.3.A.1 Represent and solve problems involving multiplication and division.</p> <p>CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division.</p> <p>CC.2.2.3.A.3 Demonstrate multiplication and division fluency.</p> <p>CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p>	<p>I can multiply ones, tens, and hundreds mentally.</p> <p>I can multiply ones, tens, and hundreds without regrouping mentally.</p> <p>I can multiply ones, tens and hundreds with regrouping.</p>
<p>UNIT 8: DIVISION</p>	<p>CC.2.2.3.A.1 Represent and solve problems involving multiplication and division.</p> <p>CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division.</p> <p>CC.2.2.3.A.3 Demonstrate multiplication and division fluency.</p> <p>CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p>	<p>I can use related multiplication facts and patterns to divide.</p> <p>I can divide a 1 or 2-digit number by a 1-digit number with or without regrouping.</p> <p>I can use different strategies to identify odd and even numbers.</p> <p>I can use base-ten blocks and place value to divide 2-digit numbers with and without regrouping or remainders.</p> <p>I can use base-ten blocks and place value to divide 2-digit numbers by a 1-digit number with or without regrouping, with or without remainders.</p>
<p>UNIT 9: MONEY</p>	<p>CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>CC.2.4.3.A.3 Solve problems and make change involving money using a combination of coins and bills.</p>	<p>I can add money in different ways with and without regrouping.</p> <p>I can subtract money in different ways with and without regrouping.</p> <p>I can solve real-world problems involving adding and subtracting money.</p>
<p>UNIT 10:</p>	<p>CC.2.1.3.B.1</p>	I can use metric units to estimate and measure length.

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<p>METRIC LENGTH, MASS, VOLUME/ REAL WORLD PROBLEMS MEASUREMENT</p>	<p>Apply place-value understanding and properties of operations to perform multi-digit arithmetic. CC.2.2.3.A.1 Represent and solve problems involving multiplication and division. CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division. CC.2.2.3.A.3 Demonstrate multiplication and division fluency. CC.2.4.3.A.1 Solve problems involving measurement and estimation of temperature, liquid volume, mass, and length</p>	<p>I can use kilometers and meters to estimate and measure length. I can read a scale in kilograms and grams to estimate and find the actual mass of object. I can use liters and milliliters to estimate and find volume. I can use bar models to solve measurement problems.</p>
<p>UNIT 11: BAR GRAPHS AND LINE PLOTS</p>	<p>CC.2.4.3.A.4 Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.</p>	<p>I can make a bar graph with scales using data n picture graphs and tally charts. I can read and interpret data from bar graphs. I can solve problems using bar graphs I can make a line plot to represent and interpret data.</p>
<p>UNIT 12: FRACTIONS</p>	<p>CC.2.1.3.C.1 Explore and develop an understanding of fractions as numbers. CC.2.3.3.A.2 Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.</p>	<p>I can read, write, and identify parts of a whole. I can identify the numerator and denominator of a fraction I can use models or a number line to identify equivalent fractions. I can use multiplication or division to find equivalent fractions. I can write fractions in simplest form. I can show fractions on a number line. I can compare and order fractions. I can read, write and identify fractions of a set. I can recognize fractions that are whole numbers and express whole numbers as fractions.</p>
<p>UNIT 13: CUSTOMARY LENGTH, WEIGHT, CAPACITY</p>	<p>CC.2.1.3.C.1 Explore and develop an understanding of fractions as numbers. CC.2.4.3.A.1 Solve problems involving measurement and estimation of temperature, liquid volume, mass, and length. CC.2.4.3.A.4 Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.</p>	<p>I can use inch to the ¼ inch, feet, yards and miles to estimate and measure lengths. I can estimate and show measurements on a line plot with a scale of whole numbers and fractions. I can use referents to estimate lengths. I can use ounces (oz.), pounds (lbs.), and tons to measure weight. I can read a scale in ounce (oz.) and pounds (lb.) to estimate and find the actual weight of objects. I can use referents to estimate weights. I can estimate and find the actual capacity of a container with cups (c.), pints (pt.) quarts (qt.), and gallons (gal.) I can relate units of capacity to one another.</p>
<p>UNIT 14: TIME AND</p>	<p>CC.2.4.3.A.1 Solve problems involving</p>	<p>I can tell time to the minute on an analog or digital clock. I can find elapsed time.</p>

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TEMPERATURE	<p>measurement and estimation of temperature, liquid volume, mass, and length.</p> <p>CC.2.4.3.A.2 Tell and write time to the nearest minute and solve problems by calculating time intervals.</p>	<p>I can read a Fahrenheit thermometer.</p> <p>I can use a referent to estimate temperature.</p> <p>I can solve word problems involving time and temperature.</p>
UNIT 15: TWO – DIMENSIONAL SHAPES	<p>CC.2.3.3.A.1 Identify, compare, and classify shapes and their attributes.</p>	<p>I can identify closed and open figures.</p> <p>I can identify special polygons and quadrilaterals.</p> <p>I can classify polygons by number of sides, vertices and angles.</p> <p>I can classify quadrilaterals by parallel sides, length of sides and angles.</p> <p>I can combine and separate polygons to make other polygons</p> <p>I can identify slides, flips and turns.</p> <p>I can use slides, flips, and turns to identify congruent figures.</p> <p>I can identify symmetrical figures.</p>
UNIT 16: AREA AND PERIMETER	<p>CC.2.1.3.B.1 Apply place-value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>CC.2.4.3.A.5 Determine the area of a rectangle and apply the concept to multiplication and to addition.</p> <p>CC.2.4.3.A.6 Solve problems involving perimeters of polygons and distinguish between linear and area measures.</p>	<p>I can use square units to find the area of a plane figure.</p> <p>I can use square centimeters and square inches to find and compare the areas of plane figures.</p> <p>I can estimate the area of small and large areas.</p> <p>I can find the perimeter of plane figures.</p> <p>I can compare the area and perimeters of plane figures.</p> <p>I can use the areas of plane figures to solve real-world problems.</p>
UNIT 17: USING BAR MODELS: MULTIPLICATION AND DIVISION	<p>CC.2.2.3.A.1 Represent and solve problems involving multiplication and division.</p> <p>CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division.</p> <p>CC.2.2.3.A.3 Demonstrate multiplication and division fluency.</p> <p>CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p>	<p>I can use bar models to solve one-step multiplication problems.</p> <p>I can use bar models to solve two-step word problems.</p> <p>I can choose the correct operations to solve two-step word problems.</p> <p>I can represent unknown quantities with letters.</p> <p>I can use bar models to solve one-step division word problems,</p> <p>I can use bar models to solve two-step word problems.</p> <p>I can solve two-step word problems using all four operations.</p> <p>I can represent unknown quantities with letters.</p>
UNIT 18: TYING UP LOOSE ENDS	<p>CC.2.1.3.B.1 Apply place-value understanding and properties of operations to</p>	<p>I can convert from meters to centimeters and centimeters to meters.</p> <p>I can convert from kilometers to meters and meters to kilometers</p> <p>I can convert from kilograms to grams and grams to kilo grams</p>

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	<p>perform multi-digit arithmetic. CC.2.2.3.A.1 Represent and solve problems involving multiplication and division. CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division. CC.2.2.3.A.3 Demonstrate multiplication and division fluency. CC.2.4.3.A.1 Solve problems involving measurement and estimation of temperature, liquid volume, mass, and length CC.2.4.3.A.2 Tell and write time to the nearest minute and solve problems by calculating time intervals.</p>	<p>I can convert from liters to milliliters and milliliters to liters</p> <p>I can draw bar models to solve two-step measurement problems.</p> <p>I can minutes to hours and hours to minutes.</p> <p>I can add time with and without regrouping.</p> <p>I can subtract time with and without regrouping.</p>
<p>UNIT 19: ANGLES AND LINES</p>	<p>CC.2.3.3.A.1 Identify, compare, and classify shapes and their attributes.</p>	<p>I can find angles in plane shape and real-world objects</p> <p>I can the number of sides and angles in plane shapes.</p> <p>I can identify a right angle in plane shapes and compare it to other angles.</p> <p>I can define and identify perpendicular lines.</p> <p>I can define and identify parallel lines.</p>