## Second Grade Math Curriculum Map

| Quarter 1-Mid Quarter 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Domains | Operations and Algebraic Thinking | Operations and Algebraic Thinking | Operations and Algebraic Thinking | Operations and Algebraic Thinking |
| Cluster | Add and subtract within 20. | Add and subtract within 20. | Work with equal groups of objects to gain foundations for multiplication. | Work with equal groups of objects to gain foundations for multiplication. |
| Target Standards | MAFS.2.OA.2.2 : Fluently add and subtract within 20 using mental strategies. <br> (Fact Families) | MAFS.2.OA.2.2 : Fluently add and subtract within 20 using mental strategies. <br> (Make a Ten) | MAFS.2.OA.3.3 : Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2 s ; write an equation to express an even number as a sum of two equal addends. | MAFS.2.OA.3.4 : 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. |
| Mathematical Practices | 1, 2, 4 and 5 | 1, 2, 4 and 5 | 2, 4, 7 and 8 | $2,4,7$ and 8 |
| Objective/Learning Goal/SWBT | *Use a variety of tools (ten frame, number line, hundreds chart, centimeter and inch ruler) to add or subtract numbers within 15 with ease. <br> *Apply different mental strategies to calculate with efficiency within $15 .$ <br> *Represent the inverse relationship between addition and subtraction. | *Use a variety of tools (ten frame, number line, hundreds chart, centimeter and inch ruler) too add or subtract numbers within 15 with ease. <br> *Apply different mental strategies to calculate with efficiency within 15. <br> *Represent the inverse relationship between addition and subtraction. | *Show how to pair manipulatives to demonstrate odd and even numbers. *Show how an even number can be separated into two equal groups (without altering an object) while an odd number cannot be separated into two equal groups. <br> *Classify numbers as odd or even and explain why. | *Organize a group of objects into rectangular arrays. <br> *Use addition to find the total number of objects in an array. <br> *Record pictorial models of rectangular array arrangements that have been constructed with tangible objects. |
| iReady Resources | Unit 1 Lesson 1 | Unit 1 Lesson 3 | Unit 1 Lesson 4 | Unit 1 Lesson 5 |


| Mid Quarter 1-End Quarter 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Domains | Numbers and Operations in Base Ten | Operations and Algebraic Thinking | Operations and Algebraic Thinking | Operations and Algebraic Thinking |
| Cluster | Use place value understanding and properties of operations to add and subtract. | Represent and solve problems involving addition and subtraction. | Represent and solve problems involving addition and subtraction. | Represent and solve problems involving addition and subtraction. |
| Target Standards | MAFS.2.NBT.2.5 : Fluently add and subtract within 100 using strategies based on place value, properties of operations and/or the relationship between addition and subtraction. | MAFS.2.OA.1.1a : Determine the unknown whole number in an equation relating four or more whole numbers. | MAFS.2.OA.1.1 : Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart ad comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. | MAFS.2.OA.1.1 : Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. |
| Mathematical Practices | 1, 2, 3 and 7 | 1, 2, 4 and 5 | 1, 2, 4 and 5 | 1, 2, 4 and 5 |
| Objective/Learning Goal/SWBT | *Add and subtract two-digit numbers (within 100) efficiently and accurately, using a variety of strategies. <br> *Explain why strategies work, using knowledge of place value. | *Understand that the equal sign means "is the same value as" or "balances". <br> *Solve an equation with an unknown number in any position. <br> *Solve equations relating four or more whole numbers with an unknown using balancing situations. <br> *Complete addition and subtraction equations using a symbol to represent the unknown number in a different position. | *Choose when to use addition and/or subtraction in a word problem. Represent two-step addition and subtraction word problems using objects, drawings, and equations. <br> *Defend your representation of how to solve the word problem. <br> *Justify and explain the strategy chosen to solve a real-world problem. | *Represent one-step addition and subtraction word problems using objects, drawings, and equations. <br> *Defend your representation of how to solve the word problem. <br> *Justify and explain the strategy chosen to solve a real-world problem. |
| iReady Resources | Unit 2 Lesson 7 | Unit 1 Lesson 6A | Unit 1 Lesson 6B | Unit 1 Lesson 2 |

## Second Grade Math Curriculum Map

| Quarter 2-Mid Quarter 2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Domains | Numbers and Operations in Base Ten | Operations and Algebraic Thinking | Numbers and Operations in Base Ten | Numbers and Operations in Base Ten |
| Cluster | Use place value understanding and properties of operations to add and subtract. | Represent and solve problems involving addition and subtraction. | Understand place value. | Understand place value. |
| Target Standards | MAFS.2.NBT.2.8 : Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900. | MAFS.2.OA.1.1 : Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart ad comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. | MAFS.2.NBT.1.1 : Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones. a: 100 can be thought of as a bundle of ten tens called a "hundred". b: The numbers 100,200,300,400,500,600,700,800,900 <br> refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). | MAFS.2.NBT.1.3 : Read and write numbers to 1000 using base-ten numerals, number names and expanded form. |
| Mathematical Practices | 1, 2, 3 and 7 | 1, 2, 4 and 5 | 2, 4 and 7 | 1, 2, 4 and 7 |
| Objective/Learning Goal/SWBT | *Add and subtract two 2-digit numbers (within 100) efficiently and accurately, using a variety of strategies. <br> *Add and subtract multiples of 10 up to 100 using different strategies. | *Choose when to use addition and/or subtraction in a word problem. <br> *Represent two-step addition and solve one-step word problems with two-digit numbers. <br> *Defend your representation of how to solve the word problem. <br> *Justify and explain the strategy chosen to solve a real-world problem. | *Identify the digit of a number to 999 that corresponds with a given place value with concrete materials and pictorial representations. <br> *Represent a hundred as ten groups of ten. <br> *Express a number up to 999 using place value in multiple ways. | *Read and write numbers using base-ten numerals and number names (word form) through 999. <br> *Model a number up to 999 in expanded form using appropriate tools. <br> *Write a number up to 999 in expanded form. |
| iReady Resources | Unit 2 Lesson 8 | Unit 2 Lesson 9 | Unit 2 Lesson 10 | Unit 2 Lesson 11 |

## Second Grade Math Curriculum Map

| Mid Quarter 2-End Quarter 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| Domains | Numbers and Operations in Base Ten | Numbers and Operations in Base Ten | Numbers and Operations in Base Ten |
| Cluster | Understand place value. | Use place value understanding and properties of addition to add or subtract. | Use place value understanding and properties of addition to add or subtract. |
| Target Standards | MAFS.2.NBT.1.4 : Compare two threedigit numbers based on meanings of the hundreds, tens, and ones digits, using $>,=$, and < symbols to record the results of comparisons. | MAFS.2.NBT.2.7 : Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. | MAFS.2.NBT.2.7 : Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. |
| Mathematical Practices | 1, 2, 4 and 7 | 1, 2, 3, 5 and 7 | 1, 2, 3, 5 and 7 |
| Objective/Learning Goal/SWBT | *Construct and communicate a comparison of two numbers up to 999 using place value blocks. <br> *Explain a process for describing whether a three-digit number is greater than, less than, or equal to another three-digit number. <br> *Compare two numbers up to 999 using symbols, >, =, <. | *Add two 3-digit numbers within 1000 using a variety of strategies and tools. *Justify the strategy chosen to solve a problem and explain thinking. <br> *Apply knowledge of place value and the properties of operations to explain why addition or subtraction strategies work. | *Subtract two 3-digit numbers within 1000 using a variety of strategies and tools. <br> *Justify the strategy chosen to solve a problem and explain thinking. <br> *Apply knowledge of place value and the properties of operations to explain why addition or subtraction strategies work. |
| iReady Resources | Unit 2 Lesson 12 | Unit 2 Lesson 13 | Unit 2 Lesson 14 |

## Second Grade Math Curriculum Map

| Quarter 3-Mid Quarter 3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Domains | Numbers and Operations in Base Ten | Measurement and Data | Measurement and Data | Measurement and Data |
| Cluster | Use place value understanding and properties of addition to add or subtract. | Measure and estimate lengths in standard units. | Measure and estimate lengths in standard units. | Measure and estimate lengths in standard units. |
| Target Standards | MAFS.2.NBT.2.6 : Add up to four two-digit numbers using strategies based on place value and properties of operations. | MAFS.2.MD.1.1 : Measure the length of an object to the nearest inch, foot, centimeter, or meter by selecting and using appropriate tools, such as rulers, yardsticks, meter sticks, and measuring tapes. | MAFS.2.MD.1.1 : Measure the length of an object to the nearest inch, foot, centimeter, or meter by selecting and using appropriate tools, such as rulers, yardsticks, meter sticks, and measuring tapes. | MAFS.2.MD.1.2 : Describe the inverse relationship between the size of a unit and number of units needed to measure a given object. |
| Mathematical Practices | 1, 2, 3, 5 and 7 | 2, 3, 5 and 6 | 2, 3, 5 and 6 | 2, 3, 5 and 6 |
| Objective/Learning Goal/SWBT | *Add up to four two-digit numbers using a variety of strategies. | *Understand that length tells how long, how tall, or how wide something is. *Select an appropriate tool to measure the length of an object provided by the teacher. | *Understand that length tells how long, how tall, or how wide something is. <br> *Select an appropriate tool to measure the length of an object provided by the teacher. <br> *Measure and record the length of various objects provided by the teacher to the nearest inch, foot, centimeter, or meter (from any given number). | *Discover what happens when different standard units are used to measure the same object. <br> *Explain that as the size of a unit increases, the number of units needed to measure an object decreases and vice versa. <br> *Determine an appropriate unit of measure. |
| iReady Resources | Unit 2 Lesson 15 | Unit 3 Lesson 16 | Unit 3 Lesson 17 | Unit 2 Lesson 18 |

## Second Grade Math Curriculum Map

| Mid Quarter 3-End Quarter 3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Domains | Measurement and Data | Measurement and Data | Measurement and Data | Measurement and Data |
| Cluster | Measure and estimate lengths in standard units. | Measure and estimate lengths in standard units. | Relate addition and subtraction to length. | Represent and interpret data. |
| Target Standards | MAFS.2.MD.1.3 : Estimate lengths using units of inches, feet, yards, centimeters, and meters. | MAFS.2.MD.1.4 : Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. | MAFS.2.MD.2.5 : Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. | MAFS.2.MD.4.9 : Generate measurement data by measuring lengths of several objects to the nearest whole unit or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units. |
| Mathematical Practices | $2,3,5$ and 6 | 1, 2, 5 and 6 | 1, 2, 5 and 6 | 1, 4, 5, 6 and 7 |
| Objective/Learning Goal/SWBT | *Discover useful benchmarks for the following measurements: inch, foot, yard, centimeter, and meter. <br> *Estimate a reasonable length for a given object visually after seeing a benchmark unit. <br> *Justify the reasoning for an estimate. | *Find the difference in length between two objects using standard units. <br> *Describe the difference between two objects with comparative phrases. | *Add and subtract lengths of the same unit within 100. <br> *Represent addition and subtraction word problems involving lengths of the same unit by using diagrams and equations with a symbol for the unknown length. *Solve for the unknown number in an equation from a word problem. | *Measure and record the lengths of several objects to the nearest whole number. <br> *Create a line plot with a horizontal scale marked off in whole-number units. <br> *Record length measurements on a line plot. <br> *Identify the parts of a line plot. |
| IReady Resources | Unit 2 Lesson 19 | Unit 2 Lesson 20 | Unit 2 Lesson 21 | Unit 3 Lesson 22 |

## Second Grade Math Curriculum Map

| Quarter 4-Mid Quarter 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Domains | Measurement and Data | Measurement and Data | Measurement and Data |
| Cluster | Represent and interpret data. | Work with time and money. | Work with time and money. |
| Target Standards | MAFS.2.MD.4.10 : Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. | MAFS.2.MD.3.7 : Tell and write time from analog and digital clocks to the nearest five minutes. | MAFS.2.MD.3.8 : Solve one- and two-step word problems involving dollar bills or coins, using monetary symbols appropriately. Word problems may involve addition, subtraction, and equal groups situations. |
| Mathematical Practices | 1, 4, 5, 6 and 7 | 1,5,6 and 7 | 1, 5, 6 and 7 |
| Objective/Learning Goal/SWBT | *Identify the parts of a picture graph and bar graph. <br> *Interpret and explain data on a given picture graph ad bar graph to solve problems. <br> *Create a picture graph and bar graph from a given set of data. (Students need to create both horizontal and vertical graphs.) <br> *Represent up to four categories of data on single-unit scales. | *Skip count by 5 s to tell time in fiveminute intervals on an analog clock. *Determine the time on an analog clock and write time as it would appear on a digital clock when given a time to the hour, half-hour, and five minute intervals. *Determine the time on a digital clock and draw in the hands on an analog clock when given a time to the hour, half-hour and five minute intervals. | *Identify and name the value of coins and bills. <br> *Skip count to find the value of a group of like coins up to $\$ 1$. <br> *Calculate the value of mixed coins up to $\$ 1$ or mixed bills up to $\$ 100$. <br> *Represent the value of coins. <br> *Solve one- and two-step word problems involving money finding both sums and differences. |
| iReady Resources | Unit 3 Lesson 23 | Unit 3 Lesson 24 | Unit 3 Lesson 25 |

## Second Grade Math Curriculum Map

| Mid Quarter 4-End Quarter 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Domains | Geometry | Geometry | Geometry |
| Cluster | Reason with shapes and their attributes. | Reason with shapes and their attributes. | Reason with shapes and their attributes. |
| Target Standards | MAFS.2.G.1.1 : Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. | MAFS.2.G.1.2 : Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. | MAFS.2.G.1.3 : Partition circles and rectangles into two, three, or four equal shares. |
| Mathematical Practices | 3, 6 and 7 | 2, 4, 7 and 8 | 3, 6 and 7 |
| Objective/Learning Goal/SWBT | *Identify and classify two-dimensional shapes as triangles, quadrilaterals, pentagons, and hexagons. <br> *Identify and classify a cube as a threedimensional shape. <br> *Explain which attributes define a shape or group of shapes. <br> *Construct two-dimensional shapes when given defining attributes. | *Differentiate between rows and columns. <br> *Partition a given rectangle into squares of equal size by drawing rows and columns. <br> *Determine the number of equal-sized squares that result in the partitioned rectangle. | *Partition/divide circles and rectangles into two, three, or four equal shares. <br> *Describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. |
| iReady Resources | Unit 4 Lesson 26 | Unit 4 Lesson 27 | Unit 4 Lesson 28 |

