

Grade 2 Math

Diary map is based on the 2017-2018 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
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<p><b>Common Core Standards for Mathematical Content</b></p> <p><b>Operations and Algebraic Thinking</b>                  2.OA.A Represent and solve problems involving addition and subtraction.                  2.OA.B Add and subtract within 20.                  2.OA.C Work with equal groups of objects to gain foundations for multiplication.</p> <p><b>Number and Operations in Base Ten</b>                  2.NBT.A Understand place value.                  2.NBT.B Use place value understanding and properties of operations to add and subtract.</p> <p><b>Measurement and Data</b>                  2.MD.A Measure and estimate lengths in standard units.                  2.MD.B Relate addition and subtraction to length.                  2.MD.C Work with time and money.                  2.MD.D Represent and interpret data.</p> <p><b>Geometry</b>                  2.G.A Reason with shapes and their attributes.</p>			<p><b>Common Core Standards for Mathematical Practice</b></p> <p>MP.1 Make sense of problems and persevere in solving them.                  MP.2 Reason abstractly and quantitatively.                  MP.3 Construct viable arguments and critique the reasoning of others.                  MP.4 Model with mathematics.                  MP.5 Use appropriate tools strategically.                  MP.6 Attend to precision.                  MP.7 Look for and make use of structure.                  MP.8 Look for and express regularity in repeated reasoning.</p> <p>*Practice standards are ongoing all year.</p>			
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<p><b>Aug.-Sept.</b></p> <p><b>Standards:</b>                  2.OA.A.1                  2.OA.B.2                  2.OA.C.3                  2.OA.C.4                  2.NBT.A.2</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  What strategies are used to add and subtract?</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  -Addition properties                  -Count on to add                  -Doubles and near doubles                  -Making a 10                  -Add 3 numbers                  -Problem Solving: Write a number sentence                  -Count back to subtract                  -Subtract all and subtract zero                  -Use doubles to subtract                  -Relate addition and subtraction                  -Missing addends                  -Fact families</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  -Use the Commutative Property and the Identity Property to find sums                  -Use a number line to count on when adding                  -Use doubles and near doubles to find sums                  -Make a 10 to solve addition problems                  -Group addends differently to make the same sum                  -Write a number sentence to solve problems                  -Count back to find the</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)                  -Weekly homework assignments                  -Check My Progress Review, and Reflect                  -Chapter test</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  -McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)                  -various manipulatives</p>	<p><b>Applying Addition and Subtraction Concepts</b>                  -McGraw-Hill <i>My Math</i> website                  www.connected.mcgraw-hill.com</p>
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	<p><b>Number Patterns</b> How can equal groups help when adding?</p>	<p>-Two-step word problems</p> <p><b>Number Patterns</b> -Skip count on a hundred chart -Skip count by 2's, 5's, and 10's -Problem Solving: Find a pattern -Repeated addition -Repeated addition with arrays -Even and odd numbers -Sums of equal numbers</p>	<p>difference -Subtract all or zero to find the difference -Use doubles facts to find the difference -Use addition facts to subtract -Use subtraction facts to help find missing addends -Use related facts to write fact families -Solve words problems that involve 2 steps</p> <p><b>Number Patterns</b> -Use patterns to skip count -Model skip counting to find the total in equal groups -Find a pattern to solve problems -Use repeated addition to add equal groups -Use arrays with repeated addition -Find even and odd numbers in number patterns -Find sums of equal numbers</p>	<p><b>Number Patterns</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -Weekly homework assignments -Check My Progress -Fluency Practice, My Review, and Reflect -Chapter test</p>	<p><b>Number Patterns</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -various manipulatives</p>	<p><b>Number Patterns</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p>
<p><b>Oct.</b>  <b>Standards:</b> 2.OA.A.1 2.NBT.B.5</p>	<p><b>Add Two-Digit Numbers</b> How can two-digit numbers be added?</p>	<p><b>Add Two-Digit Numbers</b> -Two-digit fact families -Regroup a ten as ones -Subtract from a two-digit number</p>	<p><b>Add Two-Digit Numbers</b> -Use related facts to make two-digit fact families -Use models to regroup</p>	<p><b>Add Two-Digit Numbers</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -Weekly homework</p>	<p><b>Add Two-Digit Numbers</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -various manipulatives</p>	<p><b>Add Two-Digit Numbers</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p>

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		<ul style="list-style-type: none"> <li>-Subtract two-digit numbers</li> <li>-Rewrite two-digit subtraction</li> <li>-Check subtraction</li> <li>-Problem Solving Strategy: Write a number Sentence</li> <li>-Two-Step word problems</li> </ul>	<ul style="list-style-type: none"> <li>and find differences</li> <li>-Subtract one-digit numbers from two-digit numbers</li> <li>-Subtract two-digit numbers</li> <li>-Rewrite a horizontal two-digit subtraction sentence vertically before subtracting</li> <li>-Use addition to check subtraction</li> <li>-Write a number sentence to solve problems</li> <li>-Read and solve two-step word problems</li> </ul>	<ul style="list-style-type: none"> <li>assignments</li> <li>-Check My Progress</li> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>		
Nov.	<p><b>Subtract Two-Digit Numbers</b> How can two-digit numbers be subtracted?</p> <p><b>Standards:</b> 2.NBT.B.5 2.OA.A.1</p>	<p><b>Subtract Two-Digit Numbers</b></p> <ul style="list-style-type: none"> <li>-Two-digit fact families</li> <li>-Regroup a ten as ones</li> <li>-Subtract from a two-digit number</li> <li>-Subtract two-digit numbers</li> <li>-Rewrite two-digit subtraction</li> <li>-Check subtraction</li> <li>-Problem Solving Strategy: Write a number Sentence</li> <li>-Two-Step word problems</li> </ul>	<p><b>Subtract Two-Digit Numbers</b></p> <ul style="list-style-type: none"> <li>-Use related facts to make two-digit fact families</li> <li>-Use models to regroup and find differences</li> <li>-Subtract one-digit numbers from two-digit numbers</li> <li>-Subtract two-digit numbers</li> <li>-Rewrite a horizontal two-digit subtraction sentence vertically before subtracting</li> <li>-Use addition to check subtraction</li> <li>-Write a number sentence to solve problems</li> </ul>	<p><b>Subtract Two-Digit Numbers</b></p> <p>McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)</p> <ul style="list-style-type: none"> <li>-Weekly homework assignments</li> <li>-Check My Progress</li> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>	<p><b>Subtract Two-Digit Numbers</b></p> <ul style="list-style-type: none"> <li>-McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)</li> <li>-various manipulatives</li> </ul>	<p><b>Subtract Two-Digit Numbers</b></p> <ul style="list-style-type: none"> <li>-McGraw-Hill <i>My Math</i> website</li> <li>www.connected.mcgraw-hill.com</li> </ul>

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			-Read and solve two-step word problems			
<b>Dec.</b>  <b>Standards:</b> 2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4	<b>Place Value to 1,000</b> How is place value used?	<b>Place Value to 1,000</b> -Ones -Tens -Hundreds -Thousand -Problem-Solving Strategy: Use Logical Reasoning -Numbers to 1,000 -Counting by 5's, 10's, and 100's -Comparing numbers to 1,000	<b>Place Value to 1,000</b> -Relate hundreds, tens, and ones -Read, write, and model numbers to 999 -Identify and use words, models, and expanded form to represent numbers to 999 -Use logical reasoning to solve problems -Read and write numbers to 1,000 -Find counting patterns -Compare three-digit numbers using $<$ , $>$ , and $=$	<b>Place Value to 1,000</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -Weekly homework assignments -Check My Progress -Fluency Practice, My Review, and Reflect -Chapter test	<b>Place Value to 1,000</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -various manipulatives	<b>Place Value to 1,000</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com
<b>Jan.</b>  <b>Standards:</b> 2.NBT.B.7 2.NBT.B.8	<b>Add Three-Digit Numbers</b> How can three-digit numbers be added?	<b>Add Three-Digit Numbers</b> -Mentally add 10 or 100 -Regroup ones to add -Regroup tens to add -Add three-digit numbers -Rewrite three-digit addition -Problem Solving Strategy: Guess, Check, and Revise	<b>Add Three-Digit Numbers</b> -Add 10 or 100 mentally -Regroup the ones to add three-digit numbers -Regroup tens to add three-digit numbers -Add three-digit numbers with regrouping -Rewrite a three-digit addition problem vertically before adding when given it written horizontally -Use the guess, check, and revise strategy to solve problems	<b>Add Three-Digit Numbers</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -Weekly homework assignments -Check My Progress -Fluency Practice, My Review, and Reflect -Chapter test	<b>Add Three-Digit Numbers</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016) -various manipulatives	<b>Add Three-Digit Numbers</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com
<b>Feb.</b>	<b>Subtract Three-Digit Numbers</b>	<b>Subtract Three-Digit Numbers</b>	<b>Subtract Three-Digit Numbers</b>	<b>Subtract Three-Digit Numbers</b>	<b>Subtract Three-Digit Numbers</b>	<b>Subtract Three-Digit Numbers</b>

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	<p>How can three-digit numbers be subtracted?</p>	<ul style="list-style-type: none"> <li>-Take apart hundreds to subtract</li> <li>-Subtract hundreds</li> <li>-Mentally subtract 10 or 100</li> <li>-Regroup tens</li> <li>-Regroup hundreds</li> <li>-Subtract three-digit numbers</li> <li>-Rewrite three-digit subtraction</li> <li>-Problem Solving Strategy: Write a number sentence</li> <li>-Subtract across zeros</li> </ul>	<ul style="list-style-type: none"> <li>-Make a hundred to subtract a three-digit number</li> <li>-Subtract numbers in the hundreds</li> <li>-Mentally subtract numbers by 10 or 100</li> <li>-Regroup tens to subtract three-digit numbers</li> <li>-Regroup hundreds to subtract three-digit numbers</li> <li>-Subtract three-digit numbers</li> <li>-Rewrite horizontal three-digit subtraction as vertical three-digit subtraction</li> <li>-Use the write a number sentence strategy to solve problems</li> <li>-Subtract from numbers ending in zero</li> </ul>	<p>McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)</p> <ul style="list-style-type: none"> <li>-Weekly homework assignments</li> <li>-Check My Progress</li> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>	<p>-McGraw-Hill <i>My Math</i> Grade 2, Volume 1 (2016)</p> <ul style="list-style-type: none"> <li>-various manipulatives</li> </ul>	<p>-McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p>
	<p><b>Money</b> How is money added and subtracted?</p>	<p><b>Money</b></p> <ul style="list-style-type: none"> <li>-Pennies, nickels, and dimes</li> <li>-Quarters</li> <li>-Count coins</li> <li>-Problem Solving Strategy: Act it out</li> <li>-Dollars</li> </ul>	<p><b>Money</b></p> <ul style="list-style-type: none"> <li>-Count to find the value of pennies, nickels, and dimes</li> <li>-Count to find the value of coins</li> <li>-Skip count and count on to determine the value of a group of coins</li> <li>-Use the act it out strategy to solve problems</li> <li>-Use coins to make one dollar</li> </ul>	<p><b>Money</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016)</p> <ul style="list-style-type: none"> <li>-Weekly homework assignments</li> <li>-Check My Progress</li> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>	<p><b>Money</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016)</p> <ul style="list-style-type: none"> <li>-various manipulatives</li> </ul>	<p><b>Money</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p>

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<p><b>March</b></p> <p><b>Standards:</b> 2.MD.D.9 2.MD.D.10</p>	<p><b>Data Analysis</b> How is data recorded and analyzed?</p>	<p><b>Data Analysis</b> -Survey -Picture graph -Bar graph -Problem Solving Strategy: Make a table -Line plots</p>	<p><b>Data Analysis</b> -Take a survey and organize data using tally marks -Use data to create picture graphs -Analyze data on picture graphs -Make bar graphs to show data -Draw conclusions and answer questions based on bar graphs -Make a table to solve problems -Use data to create line plots -Analyze data on line plots</p>	<p><b>Data Analysis</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016) -Weekly homework assignments -Check My Progress -Fluency Practice, My Review, and Reflect -Chapter test</p>	<p><b>Data Analysis</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016) -various manipulatives</p>	<p><b>Data Analysis</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p>
<p><b>April</b></p> <p><b>Standards:</b> 2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.B.5 2.MD.B.6 2.MD.C.7 2.MD.D.9</p>	<p><b>Time</b> How is time determined?</p> <p><b>Customary and Metric Lengths</b> How are objects measured?</p>	<p><b>Time</b> -Time to the hour -Time to the half hour -Problem Solving Strategy: Find a Pattern -Time to the quarter hour</p> <p>-Time to five-minute intervals -A.M. and P.M.</p> <p><b>Customary and Metric Lengths</b> -Inches -Feet and yards</p>	<p><b>Time</b> -Tell and write time to the nearest hour -Tell and write time to the nearest half hour -Find a pattern to solve problems -Tell and write time to the quarter hour -Tell and write time to the nearest five minutes -Use A.M. and P.M. when telling and writing time</p> <p><b>Customary and Metric Lengths</b> -Use and inch ruler to measure objects</p>	<p><b>Time</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016) -Weekly homework assignments -Check My Progress -Fluency Practice, My Review, and Reflect -Chapter test</p> <p><b>Customary and Metric Lengths</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 2</p>	<p><b>Time</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016) -various manipulatives</p> <p><b>Customary and Metric Lengths</b> -McGraw-Hill <i>My Math</i> Grade 2, Volume 2</p>	<p><b>Time</b> -McGraw-Hill <i>My Math</i> website www.connected.mcgraw-hill.com</p> <p><b>Customary and Metric Lengths</b> -McGraw-Hill <i>My Math</i> website</p>

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		<ul style="list-style-type: none"> <li>-Customary tools</li> <li>-Problem solving strategy: Use logical reasoning</li> <li>-Centimeters and meters</li> <li>-Metric tools</li> <li>-Measure on a number line</li> <li>-Measurement data</li> </ul>	<ul style="list-style-type: none"> <li>-Measure objects in feet and yards</li> <li>-Choose the appropriate customary tool and measure objects by length</li> <li>-Measure to compare customary lengths</li> <li>-Use measurement to relate inches, feet, and yards</li> <li>-Use the logical reasoning strategy to solve problems</li> <li>-Use a centimeter ruler and a meterstick to measure objects</li> <li>-Choose the appropriate metric tool and measure objects by length</li> <li>-Use measurement to compare metric length</li> <li>-Use measurement to relate centimeters and meters</li> <li>-Use a number line to measure objects</li> <li>-Measure lengths to generate data shown on a line plot</li> </ul>	(2016) <ul style="list-style-type: none"> <li>-Weekly homework assignments</li> <li>-Check My Progress</li> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>	(2016) <ul style="list-style-type: none"> <li>-various manipulatives</li> </ul>	<a href="http://www.connected.mcgraw-hill.com">www.connected.mcgraw-hill.com</a>
<b>May</b>  <b>Standards:</b> 2.G.A.1 2.G.A.2 2.G.A.3	<b>Geometric Shapes and Equal Shares</b> How are shapes and equal parts used?	<b>Geometric Shapes and Equal Shares</b> <ul style="list-style-type: none"> <li>-Two-dimensional shapes</li> <li>-Sides and angles</li> <li>-Problem Solving Strategy: Draw a diagram</li> </ul>	<b>Geometric Shapes and Equal Shares</b> <ul style="list-style-type: none"> <li>-Identify two-dimensional geometric shapes</li> <li>-Recognize attributes (sides and angles) of two-dimensional shapes</li> </ul>	<b>Geometric Shapes and Equal Shares</b> McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016) <ul style="list-style-type: none"> <li>-Weekly homework assignments</li> <li>-Check My Progress</li> </ul>	<b>Geometric Shapes and Equal Shares</b> <ul style="list-style-type: none"> <li>-McGraw-Hill <i>My Math</i> Grade 2, Volume 2 (2016)</li> <li>-various manipulatives</li> </ul>	<b>Geometric Shapes and Equal Shares</b> <ul style="list-style-type: none"> <li>-McGraw-Hill <i>My Math</i> website</li> <li><a href="http://www.connected.mcgraw-hill.com">www.connected.mcgraw-hill.com</a></li> </ul>

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		<ul style="list-style-type: none"> <li>-Three-dimensional shapes</li> <li>-Faces, edges, and vertices</li> <li>-Shapes and solids relationships</li> <li>-Halves, thirds, and fourths</li> <li>-Area</li> </ul>	<ul style="list-style-type: none"> <li>-Use the draw a diagram strategy to solve problems</li> <li>-Identify three-dimensional geometric shapes</li> <li>-Describe the faces edges, and vertices of three-dimensional shapes</li> <li>-Identify two-dimensional shapes and solid shapes</li> <li>-Partition two-dimensional shapes into two, three, and four equal shares</li> <li>-Determine the area of a rectangle</li> </ul>	<ul style="list-style-type: none"> <li>-Fluency Practice, My Review, and Reflect</li> <li>-Chapter test</li> </ul>		