

# CURRICULUM *Correlation*

*Waterford Reading  
Academy:  
Math*

**100%**

*Missouri Priority  
Standards for  
Leveraging  
Learning in  
Mathematics  
2021*

*\*Correlation content includes both Waterford Digital Resources and Waterford Teacher Resources.*

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MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>LEVERAGING LEARNING FOR KINDERGARTEN IN MATHEMATICS</b>		
<b>Number Sense</b>		
<b>NS.B Understand the relationship between numbers and quantities; connect counting to cardinality.</b>		
Say the number names when counting objects, in the standard order, pairing each object with one and only one number name and each number name with one and only one object.	<ul style="list-style-type: none"> <li>Counting Songs</li> <li>Number Counting</li> <li>Order Numbers</li> <li>One-to-one Correspondence</li> <li>Number Instruction</li> </ul>	<ul style="list-style-type: none"> <li>Object Counting Basics.pdf: When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.                             <ul style="list-style-type: none"> <li>Number Walk</li> </ul> </li> </ul>
Recognize, without counting, the quantity of groups up to 5 objects arranged in common patterns.	<ul style="list-style-type: none"> <li>Moving Target (Dots)</li> </ul>	
Demonstrate that a number can be used to represent “how many” are in a set.	<ul style="list-style-type: none"> <li>Counting Songs</li> <li>Number Songs</li> <li>Make and Count Groups</li> <li>Number Counting</li> <li>Number Instruction</li> <li>Numbers Review</li> <li>One-to-one Correspondence</li> </ul>	<ul style="list-style-type: none"> <li>How many?.pdf: Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.                             <ul style="list-style-type: none"> <li>Hoop Addition</li> </ul> </li> </ul>
<b>NS.C Compare Numbers</b>		
Compare two or more sets of objects and identify which set is equal to, more than or less than the other.	<ul style="list-style-type: none"> <li>Song: Greater Than, Less Than</li> <li>Book: For the Birds</li> <li>Greater Than, Less Than</li> <li>More Than, Fewer Than</li> <li>More Than</li> <li>Fewer Than</li> </ul>	<ul style="list-style-type: none"> <li>Greater, less, or equal.pdf: Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.                             <ul style="list-style-type: none"> <li>Beans and More</li> <li>More Than Buttons</li> <li>Short Names, Long Names</li> <li>Noodle Necklaces</li> <li>Groups Do Count!</li> <li>More Than, Fewer Than, Equal</li> <li>Which Has More?</li> <li>Fewer Than</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>Number Sense and Operations in Base Ten</b>		
NBT.A Work with numbers 11-19 to gain foundations for place value.		
<p>Compose and decompose numbers from 11 to 19 into sets of tens with additional ones.</p>	<ul style="list-style-type: none"> <li>Place Value</li> </ul>	<ul style="list-style-type: none"> <li>Tens and ones.pdf: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation; understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.                             <ul style="list-style-type: none"> <li>Place Value 11-19</li> </ul> </li> </ul>
<b>Relationships and Algebraic Thinking</b>		
RA.A Understand addition as putting together or adding to, and understand subtraction as taking apart or taking from.		
<p>Represent addition and subtraction within 10.</p>	<ul style="list-style-type: none"> <li>Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction</li> <li>Book: Five Delicious Muffins</li> <li>Make and Count Groups</li> <li>Add Groups</li> <li>Subtract Groups</li> <li>Act Out Addition</li> <li>Act Out Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Represent addition and subtraction with objects. pdf: Represent addition and subtraction with objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, expressions, or equations.                             <ul style="list-style-type: none"> <li>Addition Cubes</li> <li>Addition Stories</li> <li>Going Fishing</li> <li>Let's Count On</li> <li>Act it out Stories</li> <li>Manipulative Stories</li> </ul> </li> </ul>
<p>Demonstrate fluency for addition and subtraction within 5.</p>	<ul style="list-style-type: none"> <li>Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction</li> <li>Book: Five Delicious Muffins</li> <li>Add Groups</li> <li>Subtract Groups</li> <li>Minuends</li> <li>Sums</li> <li>Act Out Addition</li> <li>Act Out Subtraction</li> </ul>	

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>RA.A Understand addition as putting together or adding to, and understand subtraction as taking apart or taking from <i>continued</i>.</b>		
Decompose numbers less than or equal to 10 in more than one way.	<ul style="list-style-type: none"> <li>• Make and Count Groups</li> <li>• Add Groups</li> <li>• Subtract Groups</li> <li>• Act Out Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>• Decompose numbers.pdf: Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation.                             <ul style="list-style-type: none"> <li>- Addition Cubes</li> <li>- Fact Families</li> </ul> </li> </ul>
Make 10 for any number from 1 to 9.	<ul style="list-style-type: none"> <li>• Make 10</li> <li>• Missing Addends</li> <li>• Count On</li> <li>• Act Out Addition</li> </ul>	<ul style="list-style-type: none"> <li>• Numbers that make 10.pdf: For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.                             <ul style="list-style-type: none"> <li>- How Many More?</li> </ul> </li> </ul>
<b>Geometry and Measurement</b>		
<b>GM.A Reason with shapes and their attributes.</b>		
Compare the measurable attributes of two objects.	<ul style="list-style-type: none"> <li>• Songs: Savanna Size, Measuring Plants</li> <li>• Capacity</li> <li>• Length</li> <li>• Order Size</li> <li>• Big and Little</li> <li>• Tall and Short</li> <li>• Heavy and Light</li> <li>• Size</li> </ul>	<ul style="list-style-type: none"> <li>• Comparing objects.pdf: Directly compare two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference.                             <ul style="list-style-type: none"> <li>- Filling Table</li> <li>- Order It Up</li> <li>- Straw Rulers</li> <li>- Measuring Walk</li> <li>- Heavy or Light</li> <li>- Make A Balance</li> <li>- Size Scavenger Hunt</li> <li>- Big and Little Sort</li> <li>- Boxes in a Line</li> <li>- Teddy Bear Line-Up</li> <li>- Magazine Sorting</li> <li>- Tall and Short</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>GM.C Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres.</b>		
Identify shapes and describe objects in the environment using names of shapes, recognizing the name stays the same regardless of orientation or size.	<ul style="list-style-type: none"> <li>Songs: Kites; Shapes, Shapes, Shapes</li> <li>Books: The Shape of Things; Imagination Shapes</li> <li>Circle, Square, Triangle, Rectangle</li> <li>Star, Semicircle, Octagon, Oval, Rhombus</li> <li>Simple Shapes</li> <li>Solid Shapes</li> <li>World Shapes</li> </ul>	<ul style="list-style-type: none"> <li>Describing objects.pdf: Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.                             <ul style="list-style-type: none"> <li>Shapes Scavenger Hunt</li> </ul> </li> </ul>
Identify and describe the attribute of shapes, and use the attributes to sort a collection of shapes.	<ul style="list-style-type: none"> <li>Songs: Corners and Sides; All Sorts of Laundry</li> <li>Book: Buttons, Buttons</li> <li>Sort</li> <li>Circle, Square, Triangle, Rectangle</li> </ul>	<ul style="list-style-type: none"> <li>Measurable attributes.pdf: Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.                             <ul style="list-style-type: none"> <li>Filling Table</li> <li>Order It Up</li> <li>Straw Rulers</li> <li>Measuring Walk</li> <li>Heavy or Light</li> <li>Make A Balance</li> <li>Measurable Attributes</li> </ul> </li> </ul>
Draw or model simple two-dimensional shapes.	<ul style="list-style-type: none"> <li>Geoboard</li> <li>Tangrams</li> </ul>	<ul style="list-style-type: none"> <li>Model shapes.pdf: Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.                             <ul style="list-style-type: none"> <li>Building Shapes</li> </ul> </li> </ul>
Compose simple shapes to form larger shapes using manipulatives.	<ul style="list-style-type: none"> <li>Geoboard</li> <li>Tangrams</li> </ul>	<ul style="list-style-type: none"> <li>Form larger shapes.pdf: Compose simple shapes to form larger shapes.                             <ul style="list-style-type: none"> <li>Combining Shapes</li> </ul> </li> </ul>
<b>Data and Statistics</b>		
<b>DS.A Classify objects and count the number of objects in each category.</b>		
Compare category counts using appropriate language.	<ul style="list-style-type: none"> <li>Song: Greater Than, Less Than</li> <li>Book: For the Birds</li> <li>Greater Than, Less Than</li> <li>More Than, Fewer Than</li> <li>More Than</li> <li>Fewer Than</li> </ul>	<ul style="list-style-type: none"> <li>Greater, less, or equal.pdf: Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.                             <ul style="list-style-type: none"> <li>Beans and More</li> <li>More Than Buttons</li> <li>Short Names, Long Names</li> <li>Noodle Necklaces</li> <li>Groups Do Count!</li> <li>More Than, Fewer Than, Equal</li> <li>Which Has More?</li> <li>Fewer Than</li> </ul> </li> </ul>

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<b>LEVERAGING LEARNING FOR GRADE 1 IN MATHEMATICS</b>		
<b>Relationships and Algebraic Thinking</b>		
<b>RA.A Represent and solve problems involving addition and subtraction.</b>		
Use addition and subtraction within 20 to solve problems	<ul style="list-style-type: none"> <li>• Songs: Fact Families; Counting On</li> <li>• Books: Facts about Families; Circus 20; Painting by Number</li> <li>• Addition and Subtraction Fact Families</li> <li>• Addition Sentences</li> <li>• Subtraction Sentences</li> <li>• Commutative Property of Addition</li> <li>• Addition and Subtraction Relationship</li> <li>• Missing Addends</li> <li>• Missing Minuends and Subtrahends</li> <li>• Add 3 One-digit Numbers</li> <li>• Subtraction Patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.                             <ul style="list-style-type: none"> <li>- The Three Little Bears</li> <li>- Fact Family Bingo</li> <li>- A Graph of Fact Families</li> <li>- Bean Facts</li> <li>- Draw a Picture</li> <li>- Addition</li> <li>- Number Pyramid</li> <li>- Subtraction Sentences</li> <li>- Model the Story</li> <li>- Fact Families</li> </ul> </li> </ul>
Develop the meaning of the equal sign and determine if equations involving addition and subtraction are true or false.	<ul style="list-style-type: none"> <li>• Song: Fact Families</li> <li>• Book: Facts About Families</li> <li>• Addition and Subtraction Fact Families</li> <li>• Addition and Subtraction Relationship</li> <li>• Commutative Property of Addition</li> <li>• Addition Sentences</li> <li>• Subtraction Sentences</li> <li>• Greater Than, Less Than</li> <li>• More Than, Fewer Than</li> </ul>	<ul style="list-style-type: none"> <li>• Equal sign.pdf: Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.                             <ul style="list-style-type: none"> <li>- Show Me!</li> <li>- Tricky Total</li> <li>- Domino Addition</li> <li>- Domino Subtraction</li> <li>- Playground Fact Snake</li> </ul> </li> </ul>

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<b>RA.C Add and subtract within 20.</b>		
<p>Demonstrate fluency with addition and subtraction within 10.</p>	<ul style="list-style-type: none"> <li>• Songs: Fact Families; Counting On</li> <li>• Books: Facts about Families; Circus 20; Painting by Number</li> <li>• Addition and Subtraction Fact Families</li> <li>• Addition Sentences</li> <li>• Subtraction Sentences</li> <li>• Commutative Property of Addition</li> <li>• Addition and Subtraction Relationship</li> <li>• Missing Addends</li> <li>• Missing Minuends and Subtrahends</li> <li>• Add 3 One-digit Numbers</li> <li>• Subtraction Patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.                             <ul style="list-style-type: none"> <li>- The Three Little Bears</li> <li>- Fact Family Bingo</li> <li>- A Graph of Fact Families</li> <li>- Bean Facts</li> <li>- Draw a Picture</li> <li>- Addition</li> <li>- Number Pyramid</li> <li>- Subtraction Sentences</li> <li>- Model the Story</li> <li>- Fact Families</li> </ul> </li> </ul>
<b>Number Sense and Operations in Base Ten</b>		
<b>NBT.A Understand place value of two-digit numbers.</b>		
<p>Understand two-digit numbers are composed of ten(s) and one(s).</p>	<ul style="list-style-type: none"> <li>• Song: Place Value</li> <li>• Place Value of 2-digit Numbers</li> <li>• Add with Manipulatives</li> </ul>	<ul style="list-style-type: none"> <li>• Tens as a bundle of ones.pdf: 10 can be thought of as a bundle of ten ones—called a “ten.”                             <ul style="list-style-type: none"> <li>- Popsicles to Ten</li> </ul> </li> </ul>
<p>Compare two two-digit numbers using the symbols <math>&gt;</math>, <math>=</math> or <math>&lt;</math>.</p>	<ul style="list-style-type: none"> <li>• Place Value</li> <li>• Greater Than, Less Than (2-digit Numbers)</li> </ul>	<ul style="list-style-type: none"> <li>• Compare two-digit numbers.pdf: Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols <math>&gt;</math>, <math>=</math>, and <math>&lt;</math>.                             <ul style="list-style-type: none"> <li>- More or Less Spinner</li> <li>- Catch Me if You Can!</li> <li>- What Are You Looking For?</li> <li>- Two-Pile Sort</li> </ul> </li> </ul>
<b>NBT.B Use place value understanding to add and subtract.</b>		
<p>Add or subtract a multiple of 10 from another two digit number, and justify the solution.</p>	<ul style="list-style-type: none"> <li>• Subtraction</li> <li>• Subtract Tens</li> <li>• Subtraction Patterns</li> <li>• Subtract</li> <li>• Place Value</li> <li>• Addition and Subtraction Relationship</li> <li>• Use Manipulatives</li> </ul>	<ul style="list-style-type: none"> <li>• Subtracting in 10s.pdf: Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90.                             <ul style="list-style-type: none"> <li>- Ten-O</li> <li>- Bingo</li> <li>- Subtract Multiples of 10</li> </ul> </li> </ul>



MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>Geometry and Measurement</b>		
<b>GM.A Reason with shapes and their attributes.</b>		
Distinguish between defining attributes versus non-defining attributes; build and draw shapes that possess defining attributes.	<ul style="list-style-type: none"> <li>• Songs: Corners and Sides; Kites</li> <li>• Geoboard</li> <li>• Space Shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Attributes.pdf: Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.                             <ul style="list-style-type: none"> <li>- Sorting Shapes</li> </ul> </li> </ul>
Compose and decompose two- and three-dimensional shapes to build an understanding of part-whole relationships and the properties of the original and composite shapes.	<ul style="list-style-type: none"> <li>• Song: Kites</li> <li>• Space Shapes</li> <li>• Geoboard</li> <li>• Tangrams</li> </ul>	
Partition circles and rectangles into two or four equal shares, and describe the shares and the wholes verbally.	<ul style="list-style-type: none"> <li>• Song: Fractions</li> <li>• Books: Halves and Fourths and Thirds; Half For You and Half For Me</li> <li>• Equal-part Fractions</li> <li>• Label Parts of Fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Equal shares.pdf: Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.                             <ul style="list-style-type: none"> <li>- Make It Equal</li> <li>- Fraction Friends</li> <li>- Fraction Train</li> <li>- Halves, Thirds, Fourths</li> <li>- Equal Parts</li> </ul> </li> </ul>
<b>GM.B Measure lengths in non-standard units.</b>		
Compare the lengths of two objects indirectly by using a third object.	<ul style="list-style-type: none"> <li>• Length</li> <li>• Nonstandard Units of Length</li> </ul>	<ul style="list-style-type: none"> <li>• Order by length.pdf: Order three objects by length; compare the lengths of two objects indirectly by using a third object.                             <ul style="list-style-type: none"> <li>- Estimating Length</li> <li>- A Fruit and Vegetable Measure</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>Data and Statistics</b>		
<b>DS.A Represent and interpret data.</b>		
<p>Draw conclusions from object graphs, picture graphs, T-charts and tallies.</p>	<ul style="list-style-type: none"> <li>• Songs: Tallying; Graphing</li> <li>• Books: Painting by Number; One More Cat; The Booneville Nine</li> <li>• Tally Marks</li> <li>• Graphs</li> <li>• Make a Table</li> </ul>	<ul style="list-style-type: none"> <li>• Data Categorization.pdf: Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.                             <ul style="list-style-type: none"> <li>- Ice-Cream Sundae</li> <li>- Make a Real Object Graph</li> <li>- Make a Weather Bar Graph</li> <li>- Weather Flashcards</li> <li>- Our Favorite Foods</li> <li>- Make a Graph</li> <li>- Make a Table</li> <li>- How Many?</li> <li>- Bugs!</li> <li>- Use Graphs and Tables</li> <li>- How Big Is Your Family?</li> </ul> </li> </ul>
<b>LEVERAGING LEARNING FOR GRADE 2 IN MATHEMATICS</b>		
<b>Number Sense and Operations in Base Ten</b>		
<b>NBT.A Understand place value of three-digit numbers.</b>		
<p>Understand three-digit numbers are composed of hundreds, tens and ones.</p>	<ul style="list-style-type: none"> <li>• Song: Place Value</li> <li>• Place Value</li> <li>• Place Value of 3-digit Numbers</li> </ul>	
<p>Compare two three-digit numbers using the symbols <math>&gt;</math>, <math>=</math> or <math>&lt;</math>.</p>	<ul style="list-style-type: none"> <li>• Greater Than, Less Than (3-digit Numbers)</li> <li>• Place Value of 3-digit Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Less than, equal to, or greater than.pdf: Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using <math>&gt;</math>, <math>=</math>, and <math>&lt;</math> symbols to record the results of comparisons.                             <ul style="list-style-type: none"> <li>- More or Less</li> <li>- The Hands Have It!</li> <li>- Larger or Smaller?</li> <li>- Comparing Number Cards</li> <li>- Number Cards</li> <li>- <math>&lt;</math>, <math>&gt;</math>, <math>=</math> Cards</li> <li>- Greater Than, Less Than, Equal To</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>NBT.B Use place value understanding and properties of operations to add and subtract.</b>		
<p>Add or subtract within 1000, and justify the solution.</p>	<ul style="list-style-type: none"> <li>• Place Value</li> <li>• Addition and Subtraction Relationship</li> <li>• Commutative Properties of Addition</li> <li>• Addition</li> <li>• Subtraction</li> <li>• Add without Regrouping</li> <li>• Add with Regrouping</li> <li>• Subtract without regrouping</li> <li>• Subtract with Regrouping</li> <li>• Act Out Addition</li> <li>• Act Out Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract within 1000.pdf: Add and subtract within 1,000, 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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.                         <ul style="list-style-type: none"> <li>- Choose and Add</li> <li>- Mix and Match Addition</li> <li>- Expanded Subtraction</li> <li>- Subtracting Repeats</li> <li>- 999</li> <li>- Prediction</li> <li>- Up and Away</li> <li>- Regrouping Treasure Hunt</li> <li>- Play Ball</li> <li>- Squirrel Facts</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
NBT.B Use place value understanding and properties of operations to add and subtract <i>continued.</i>		
<p>Use the relationship between addition and subtraction to solve problems.</p>	<ul style="list-style-type: none"> <li>• Addition and Subtraction Relationship</li> <li>• Commutative Properties of Addition</li> <li>• Addition</li> <li>• Subtraction</li> <li>• Add without Regrouping</li> <li>• Add with Regrouping</li> <li>• Subtract without regrouping</li> <li>• Subtract with Regrouping</li> <li>• Act Out Addition</li> <li>• Act Out Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract within 1000.pdf: Add and subtract within 1,000, 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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.                             <ul style="list-style-type: none"> <li>- Choose and Add</li> <li>- Mix and Match Addition</li> <li>- Expanded Subtraction</li> <li>- Subtracting Repeats</li> <li>- 999</li> <li>- Prediction</li> <li>- Up and Away</li> <li>- Regrouping Treasure Hunt</li> <li>- Play Ball</li> <li>- Squirrel Facts</li> </ul> </li> </ul>
<b>Relationships and Algebraic Thinking</b>		
RA.A Add and subtract within 20.		
<p>Demonstrate fluency with addition and subtraction within 20.</p>	<ul style="list-style-type: none"> <li>• Songs: Fact Families; Doubles</li> <li>• Subtraction Patterns</li> <li>• Addition Facts to 20</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.                             <ul style="list-style-type: none"> <li>- The Three Little Bears</li> <li>- Fact Family Bingo</li> <li>- A Graph of Fact Families</li> <li>- Bean Facts</li> <li>- Draw a Picture</li> <li>- Addition</li> <li>- Number Pyramid</li> <li>- Subtraction Sentences</li> <li>- Model the Story</li> <li>- Fact Families</li> </ul> </li> </ul>

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>RA.B. Develop foundations for multiplication and division.</b>		
Find the total number of objects arranged in a rectangular array with up to 5 rows and 5 columns, and write an equation to represent the total as a sum of equal addends.	<ul style="list-style-type: none"> <li>• Addition</li> <li>• Multiply Using Repeated Addition</li> <li>• Multiply Using Arrays</li> </ul>	
<b>Geometry and Measurement</b>		
<b>GM.A Reason with shapes and their attributes.</b>		
2.GM.A.3a. Demonstrate that equal shares of identical wholes need not have the same shape.	<ul style="list-style-type: none"> <li>• Song: Fractions</li> <li>• Books: Halves and Fourths and Thirds; The Fraction Twins</li> <li>• Fractions</li> <li>• Label Parts of Fractions</li> <li>• Fractions of Regions</li> <li>• Fractions of Groups</li> </ul>	<ul style="list-style-type: none"> <li>• Fractions.pdf: Partition circles and rectangles into two, three, or four equal shares, 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. Recognize that equal shares of identical wholes need not have the same shape.               <ul style="list-style-type: none"> <li>- Frenzied Fraction Fun</li> <li>- Fabulous Fractions</li> </ul> </li> </ul>
<b>GM.B Measure and estimate lengths in standard units.</b>		
Analyze the results of measuring the same object with different units.	<ul style="list-style-type: none"> <li>• Length</li> <li>• Standard Units of Length</li> <li>• Measurement Tools</li> </ul>	<ul style="list-style-type: none"> <li>• Measuring the same object two ways.pdf: Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.               <ul style="list-style-type: none"> <li>- Ready, Set, Measure</li> </ul> </li> </ul>
<b>GM.C. Relate addition and subtraction to length.</b>		
Represent whole numbers as lengths on a number line, and represent whole-number sums and differences within 100 on a number line	<ul style="list-style-type: none"> <li>• Number Line</li> <li>• Length</li> </ul>	

MISSOURI STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<b>GM.D Work with time and money.</b>		
<p>Find the value of combinations of dollar bills, quarters, dimes, nickels and pennies, using \$ and ¢ appropriately.</p>	<ul style="list-style-type: none"> <li>• Book: Bugs For Sale</li> <li>• Coin Identification</li> <li>• Coin Value</li> <li>• Quarters</li> <li>• Count Dimes, Nickels, and Pennies</li> <li>• Count Quarters, Dimes, Nickels, and Pennies</li> <li>• Count Nickels and Pennies or Dimes and Pennies</li> <li>• Count Coins</li> <li>• Count Bills and Coins</li> <li>• Equivalent Sums of Money</li> </ul>	<ul style="list-style-type: none"> <li>• Solve money word problems.pdf: Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.                             <ul style="list-style-type: none"> <li>- Supermarket Hunt</li> <li>- Shopping for My Family</li> <li>- Money Combinations</li> <li>- Money Sums</li> <li>- Pizza Parlor</li> <li>- How Much Back?</li> <li>- Coin Count</li> <li>- Bills and Coins</li> <li>- Let's Count Coins</li> <li>- Money Addition</li> <li>- Change Is Good!</li> <li>- Make 45¢</li> </ul> </li> </ul>
<b>Data and Statistics</b>		
<b>DS.A Represent and interpret data.</b>		
<p>Solve problems using information presented in line plots, picture graphs and bar graphs.</p>	<ul style="list-style-type: none"> <li>• Song: Graphing</li> <li>• Graphing</li> <li>• Bar Graphs</li> <li>• Picture Graphs</li> <li>• Use Graphs and Tables</li> </ul>	<ul style="list-style-type: none"> <li>• Graphs.pdf: 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.                             <ul style="list-style-type: none"> <li>- Questions and Answers</li> <li>- Library Book Survey</li> <li>- Playground Survey</li> <li>- Rock Collections</li> <li>- Use Graphs and Tables</li> </ul> </li> </ul>
<p>Draw conclusions from line plots, picture graphs and bar graphs.</p>	<ul style="list-style-type: none"> <li>• Song: Graphing</li> <li>• Graphing</li> <li>• Bar Graphs</li> <li>• Picture Graphs</li> <li>• Use Graphs and Tables</li> </ul>	

## PRE-MATH & SCIENCE

### Math Books

Zero In My Toybox; One Day on the Farm; Two Feet; Look for Three; Four Fine Friends; Grandpa's Great Athlete: A Book About 5; Hide and Seek Six; Just Seven; Eight at the Lake; 9 Cat Night; Ten for My Machine; The Search for Eleven; The Tasty Number Twelve; Thirteen in My Garden; Fourteen Camel Caravan; Fifteen on a Spring Day; Dinner for Sixteen; The Seventeen Machine; Eighteen Carrot Stew; Nineteen Around the World; Twenty Clay Children; Poor Wandering 1; Snowy Twos Day; 1, 2, 3, 4 in the Jungle; Give Me 5; Suzy Ladybug; 7 Train; 8 Octopus Legs; Highway 9; 10 Astronauts; When I Saw 11; I Love the Number 12; 13 Clues; 14 Camels; Fun 15; 16 Ants; Counting to 17; 18 Carrot Stew; 19 Around the World; 20 Fingers and Toes

### Science Books

That's What I Like: A Book about Seasons; I Want to Be a Scientist Like Jane Goodall; Mr. Mario's Neighborhood; Mela's Water Pot; I Want to Be a Scientist Like Wilbur and Orville Wright; Follow the Apples!; I Want to Be a Scientist Like George Washington Carver; Guess What I Am; Where in the World Would You Go Today?; Star Pictures; I Wish I Had Ears Like a Bat; Creepy Crawlers

### Counting Songs

Asian Counting, Marching Band Counting, Flower Counting, Country Counting, Dixieland Counting, Funky Counting, Reggae Counting, Salsa Counting, Techno Counting, Bagpipe Counting, Counting on the Mountain

## Number Songs

Count to 31; Hotel 100; Zero Is a Big Round Hole; Poor Wandering 1; Snowy Twos Day; 1, 2, 3, 4 in the Jungle; Give Me 5; Suzy Ladybug; 7 Train; 8 Octopus Legs; Highway 9; 10 Astronauts; When I Saw 11; I Love the Number 12; 13 Clues; 14 Camels; Fun 15; 16 Ants; Counting to 17; 18 Carrot Stew; 19 Around the World; 20 Fingers and Toes

## BASIC MATH & SCIENCE

### Math & Science Books

One More Cat; Can You Guess? A Story for Two Voices; I Want to Be a Scientist Like Carl Linnaeus; I Want to Be a Scientist Like Antoni van Leeuwenhoek; Whatever the Weather; I Want to Be a Mathematician Like Sophie Germain; Water Is All Around; Mr. Romano's Secret: A Time Story; A Seed Grows; How Long is a Minute?; Marty's Mixed-up Mom; I Want to Be a Scientist Like Louis Pasteur; Pancakes Matter; Jump Rope Rhymes; Facts About Families; Fifteen Bayou Band; Hooray, Hooray for the One Hundredth Day!; Symmetry and Me; Animal Bodies; Everybody Needs to Eat; The Circus Came to Town; I Want to Be a Mathematician Like Thales; Bugs for Sale; Heads or Tails; Your Backyard; The Birds, the Beasts and the Bat; Halves and Fourths and Thirds; We All Exercise; Circus 20; Red Rock, River Rock; Painting by Number; I Want to Be a Scientist Like Joanne Simpson; Navajo Beads; Where in the World Would You Go Today?; I Want to Be a Scientist Like Wilbur and Orville Wright

## FLUENT MATH & SCIENCE

### Math & Science Books

The Snow Project; Chloe's Cracker Caper; What Sounds Say; Fossils Under Our Feet; The Boonville Nine; I Want to Be a Scientist Like Alexander von Humboldt; I Want to Be a Scientist Like Marie Curie; I Want to Be a Scientist Like Stephen Hawking; George and Jack; The Old Maple Tree; A Dinosaur's First Day; I Want to Be a Scientist Like Isaac Newton; My Family Campout; I Want to Be a Scientist Like Thomas Edison; Warm Soup for Dedushka; How Did the Chicken Cross the Road?; Inventions All Around; The Beginning of Numbers; I Want to Be a Mathematician Like Ada Byron Lovelace; Lightning Bells; Tyrannosaurus X 1; Halves and Fourths and Thirds; Navajo Beads; Red Rock, River Rock; I Want to Be a Mathematician Like Srinivasa Ramanujan; The Fraction Twins; Yangshi's Perimeter; I Want to Be a Mathematician Like Archimedes; Birds at My House; Painting by Number; The Fable Fair



## SUPPORT

*Professional Services offers a continuum of customizable services. Learn more [here](#).*

## CONTINUAL DEVELOPMENT

As a nonprofit research institute, [Waterford.org](http://Waterford.org) is continually developing resources with the latest research findings. Please note that this correlation is accurate as of the date on the cover.

## SPANISH FAMILY ENGAGEMENT RESOURCES

All Waterford books and many of the resources available to families at [mentor.waterford.org](http://mentor.waterford.org) can be found in Spanish or with Spanish support.

### SONGS

#### Beginning Math Songs

Odd Todd and Even Steven; Salsa Counting; On the Bayou—Addition; Subtract Those Cars; More Than, Fewer Than; A Nice Addition; Marching Band Counting; Doubles 1-5; Multiply by 0

#### Nursery Songs and Rhymes

Rhyming Words; A: The Apple Tree; B: Bluebird, Bluebird; C: Pat-a-Cake; D: Hey Diddle, Diddle; E: One Elephant Went Out to Play; F: The Farmer in the Dell; G: Ten Little Goldfish; H: All the Pretty Little Horses; I: Mother, Mother, I Am Ill; J: Jack and Jill; K: Three Little Kittens; L: Mary Had a Little Lamb; M: Little Miss Muffett; N: I Touch My Nose Like This (Spanish); O: Polly, Put the Kettle On; P: This Little Pig; Q: Quack, Quack, Quack; R: Little Rabbit (Chinese); S: Eensy, Weensy Spider; T: Tortillas, Tortillas (Spanish); U: The Bus; V: My Valentine; W: Wee Willie Winkie; X: A-hunting We Will Go; Y: Yankee Doodle

#### Beginning Reading Songs

Comma, Comma, Comma; Homophone Monkey; Antonym Ant; Apples and Bananas; Old MacDonald's Vowels; ABC Show and Tell Sounds; ABC Tongue Twisters; ABC Picture Sounds; Sheep in the Shadows; C-K Rap; S Steals the Z; Blends; Blicky Licky Land; Apostrophe Pig; Capital Letters—Days; Charley Chick; Adjectives Describe; Lazy Letter Q; Nouns; Verbs; Adverbs; Irregular Verbs; Preposition Cat; Verbs that Link; Consonants; Pronouns, Sneaky Magic E; Silent Letters—G-H; Silent Letters—W; Drop Magic E; Bossy Mr. R; P-H and G-H Say Fff; Schwa Sound; Double the Fun; Strange Spelling; More Than One; Reading Detective—Peek at the Story

Many of these songs are available on the [Waterford.org YouTube channel](https://www.youtube.com/channel/UC...).

### WEEKLY HOMELINK NEWSLETTERS

Weekly newsletters (28 in all) are available for teachers to share with families. The newsletters explain what children are learning during the week and provide resources and activities to involve families.

### MATH HOMELINK NEWSLETTERS

Match, Position, Shapes, Counting, Patterns Sort, Size, Number Sense (1-10), Order (1-10), Count On, Measurement (length), Count Down, Addition (10), Numbers 11-15, Numbers 16-20

### SCIENCE HOMELINK NEWSLETTERS

The World Around Us (5 senses), Living Things (living v. non-living), Plants, Vertebrates, Invertebrates, The Sky Above Us (sun, moon, stars), Our Earth (recycle, ecosystems), How it Works (push/pull, solid/liquid, magnets, materials)

### READING HOMELINK NEWSLETTERS

#### Alphabet Knowledge

#### Comprehension and Vocabulary

Sum Up: Remember Order, Sum Up: Remember Details, Peek at the Story, Guess and Check, Connect to Me, Build Knowledge

#### Readiness Skills Letters

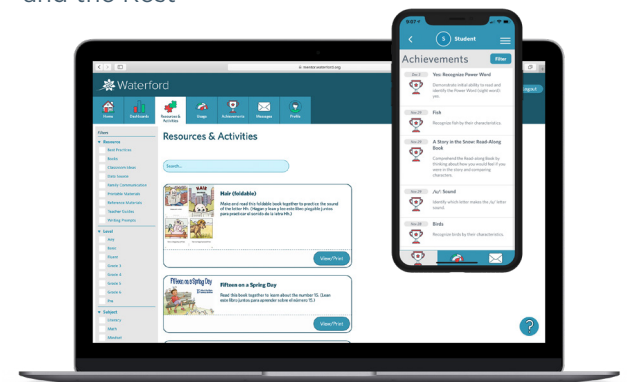
Naming Parts of the Body; First, Next, Last; One-to-One Correspondence; Opposites; Look at Details (identify same and different)

#### Phonological Awareness Letters

What Is Rhyming?, Which Words Rhyme?, Sentences Are Made Up of Words, Making Compound Words, Breaking Compound Words, What Is a Syllable?, Put Syllables Together to Make Words, Break Words into Syllables, The First Sound in a Word, Words with the Same First Sound, Making Words from First Sounds and the Rest

## WATERFORD MENTOR

*Waterford Mentor is a secure website where families can log in to see their child's usage and learning achievements. Waterford families also receive short messages with ideas on how to engage in their child's learning and have access to hundreds of resources and activities.*



Waterford Mentor is available online and in the Mentor app (for iOS and Android).