

CURRICULUM *Correlation*

*Waterford Reading
Academy:
Math*

100%

*NWEA MAP
Skills Alignment
K-2 Math*

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

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NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
KINDERGARTEN		
Number Sense & Operations		
Number Names and Count Sequence		
Use cardinal and ordinal numbers.	<ul style="list-style-type: none"> • Song: Ordinals • Ordinal Numbers • Number Songs • Counting Songs • Number Counting • Number Instruction 	
Count to 100 by 1's and 10's.	<ul style="list-style-type: none"> • Number Songs • Counting Songs • Number Counting • Number Instruction • Skip Counting 	<ul style="list-style-type: none"> • Count to 100 by ones and tens.pdf: Count to 100 by ones and tens. <ul style="list-style-type: none"> - Missing Numbers - Count On By 1 - Numbers 1-5 - Numbers 6-10 - Math Newsletters - Count By 10s - Numbers 60-69 - I Can Count to 100
Count forward beginning from a given number between 1 and 20.	<ul style="list-style-type: none"> • Count On • Counting Songs 	<ul style="list-style-type: none"> • Count forward.pdf: Count forward beginning with a given number within the known sequence. <ul style="list-style-type: none"> - Let's Count On - Toss and Count - Count On by 1
Count backward from a given number between 10 and 1.	<ul style="list-style-type: none"> • Song: Counting Backward • Book: A Space Adventure • Counting Back 	
Read and write numerals form 0 to 20.	<ul style="list-style-type: none"> • Math Books • Counting Songs • Number Songs • Number Counting • Number Instruction 	<ul style="list-style-type: none"> • Write numbers 0-20.pdf: Write numbers from 0 to 20. Represent a number of objects with a written numeral. <ul style="list-style-type: none"> - Numbers Practice - Numbers - Add groups - Count on by 1 - Number Writing Practice

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Relationships Between Numbers and Quantities		
Subitize. Without counting, recognize the number of objects of up to five objects.	<ul style="list-style-type: none"> • Moving Target (Dots) • Dominoes 	
Demonstrate one-to-one correspondence when counting objects.	<ul style="list-style-type: none"> • Counting Songs • Number Songs • Number Counting • Order Numbers • One-to-one Correspondence • Make and Count Groups • Number Instruction 	<ul style="list-style-type: none"> • 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"> - Number Walk
Count up to 20 objects in a set, regardless of their arrangement.	<ul style="list-style-type: none"> • Make and Count Groups • Number Counting • Number Instruction • One-to-One Correspondence 	<ul style="list-style-type: none"> • Object Counting Grouping.pdf: Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted. <ul style="list-style-type: none"> - Mixed Up Counting
Use concrete models to create a set with a given number of objects (up to 20).	<ul style="list-style-type: none"> • Make and Count Groups • Number Instruction 	
Use numbers to represent quantities up to 20.	<ul style="list-style-type: none"> • Math Books • Counting Songs • Number Songs • Number Counting • Number Instruction 	<ul style="list-style-type: none"> • Write numbers 0-20.pdf: Write numbers from 0 to 20. Represent a number of objects with a written numeral. <ul style="list-style-type: none"> - Numbers Practice - Numbers - Add groups - Count on by 1 - Number Writing Practice

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Relationships Between Numbers and Quantities <i>continued</i>		
<p>Compare and order sets and numbers.</p>	<ul style="list-style-type: none"> • Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make and Count Groups 	<ul style="list-style-type: none"> • 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"> - Beans and More - More Than Buttons - Short Names, Long Names - Noodle Necklaces - Groups Do Count! - More Than, Fewer Than, Equal - Which Has More? - Fewer Than • Compare two numbers.pdf: Compare two numbers between 1 and 10 presented as written numerals. <ul style="list-style-type: none"> - More or Less Spinner - Catch Me If You Can! - Greater or Less - Less or Greater
<p>Compare and order using the terms fewer, more, and less.</p>	<ul style="list-style-type: none"> • Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make and Count Groups 	<ul style="list-style-type: none"> • 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"> - Beans and More - More Than Buttons - Short Names, Long Names - Noodle Necklaces - Groups Do Count! - More Than, Fewer Than, Equal - Which Has More? - Fewer Than

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Place Value		
Compose and decompose numbers from 11 to 19 into sets of ten with additional ones.	<ul style="list-style-type: none"> Place Value 	<ul style="list-style-type: none"> 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"> Place Value 11-19
Whole Number Addition, Subtraction		
Model joining and separating sets.	<ul style="list-style-type: none"> Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction Book: Five Delicious Muffins Add Groups Subtract Groups 	
Compose and decompose numbers to ten and record results using a drawing or equation.	<ul style="list-style-type: none"> Make and Count Groups Make 10 Add Groups Subtract Groups Act Out Subtraction 	<ul style="list-style-type: none"> 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"> Addition Cubes Fact Families
For any number from 1-9, find the number that makes 10 when added to the given number.	<ul style="list-style-type: none"> Make 10 Missing Addends Count On Act Out Addition 	<ul style="list-style-type: none"> 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"> How Many More?

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Whole Number Addition, Subtraction continued</i>		
<p>Represent addition and subtraction within 10 using a variety of strategies.</p>	<ul style="list-style-type: none"> • Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Make and Count Groups • Add Groups • Subtract Groups • Act Out Addition • Act Out Subtraction 	<ul style="list-style-type: none"> • 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"> - Addition Cubes - Addition Stories - Going Fishing - Let's Count On - Act it out Stories - Manipulative Stories
<p>Demonstrate fluency for addition and subtraction within 5. (Note: Fluency refers to accuracy and efficiency and does not equate to memorization.)</p>	<ul style="list-style-type: none"> • Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Minuends • Sums • Act Out Addition • Act Out Subtraction 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Algebraic Thinking		
Number Sentences, Equations & Inequalities		
<p>Model addition and subtraction stories with addition and subtraction number sentences.</p>	<ul style="list-style-type: none"> • Songs: Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Minuends • Sums • Act Out Addition • Act Out Subtraction 	<ul style="list-style-type: none"> • Addition and subtraction word problems.pdf: Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. <ul style="list-style-type: none"> - Additions Stories - Act It Out Stories - Manipulative Stories - Edible Stories - One, Two, Three, Show - Circus Subtraction - Partner Subtraction - Farmer’s Market - Green and Speckled Frogs - Cars and Trucks Subtraction - Yummy Subtraction - Act Out Addition - Act Out Subtraction
<p>Understand the meaning of the = sign in a number sentence.</p>	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences 	<ul style="list-style-type: none"> • 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"> - Show Me! - Tricky Total - Domino Addition - Domino Subtraction - Playground Fact Snake
<p>Use +, -, and = to write number sentences (equations) for addition and subtraction stories.</p>	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences 	

NWEA MAP SKILLS ALIGNMENT K-2 MATH

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Geometry & Measurement		
Time & Money		
Identify pennies, nickels, dimes, and quarters.	<ul style="list-style-type: none"> • Song: Save Your Pennies • Coin Identification 	
Name and order the days of the week.	<ul style="list-style-type: none"> • Song: Days of the Week • Sing Around the World Song: Days of the Week 	
Use language that demonstrates an understanding of time (morning, afternoon, evening, today, yesterday, tomorrow, week, year).	<ul style="list-style-type: none"> • Book: Mr. Romano’s Secret: A Time Story • Calendar • Yesterday • Today/Tomorrow 	
Understand tools that measure time (clock, calendar).	<ul style="list-style-type: none"> • Songs: Clock Hands; Months of the Year • Calendar 	
Length & Distance		
Compare lengths & heights using non-standard units using appropriate language, such as longer, taller, shorter, and the same length.	<ul style="list-style-type: none"> • Songs: Savanna Size, Measuring Plants • Length • Big and Little • Tall and Short • Heavy and Light • Size • Big Little Animals • Large Small Toys • Nonstandard Units of Length 	<ul style="list-style-type: none"> • 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"> - Filling Table - Order It Up - Straw Rulers - Measuring Walk - Heavy or Light - Make A Balance - Size Scavenger Hunt - Big and Little Sort - Boxes in a Line - Teddy Bear Line-Up - Magazine Sorting - Tall and Short

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Liquid Volume, Weight & Mass		
<p>Compare capacities (volumes) using non-standard units using appropriate language, such as holds more, holds less, holds the same amount.</p>	<ul style="list-style-type: none"> • Song: Measuring Plants • Book: Birds At My House • Capacity • Capacity (Liters) 	<ul style="list-style-type: none"> • 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"> - Filling Table - Order It Up - Straw Rulers - Measuring Walk - Heavy or Light - Make A Balance - Size Scavenger Hunt - Big and Little Sort - Boxes in a Line - Teddy Bear Line-Up - Magazine Sorting - Tall and Short
<p>Compare weights using non-standard units using appropriate language, such as lighter, or heavier.</p>	<ul style="list-style-type: none"> • Heavy and Light • Size • Big Little Animals • Weight 	<ul style="list-style-type: none"> • 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"> - Filling Table - Order It Up - Straw Rulers - Measuring Walk - Heavy or Light - Make A Balance - Size Scavenger Hunt - Big and Little Sort - Boxes in a Line - Teddy Bear Line-Up - Magazine Sorting - Tall and Short

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Size & Position		
Describe and compare objects by size and position using terms such as above, below, beside, in front of, behind, and next to, smaller, and larger.	<ul style="list-style-type: none"> • Songs: Savanna Size, Measuring Plants; Position Cat; Get Over the Bugs • Book: Up In the Air • Order Size • Length • Big and Little • Tall and Short • Heavy and Light • Size • Position • Over, Under, Above, Below • Inside, Outside, Between • Above, Below, Next to, On 	
Reason with shapes and their Attributes		
Describe objects in the environment using names of shapes.	<ul style="list-style-type: none"> • Songs: Marmot Shapes; Shapes, Shapes, Shapes • Books: The Shape of Things; Imagination Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Simple Shapes • Solid Shapes • World Shapes 	<ul style="list-style-type: none"> • 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"> - Shapes Scavenger Hunt
Identify, describe, sort, and classify two-dimensional shapes.	<ul style="list-style-type: none"> • Songs: Same and Different; All Sorts of Laundry; Marmot Shapes; Shapes, Shapes, Shapes • Book: Buttons, Buttons • Sort • Make and Count Groups • Circle, Square, Triangle, Rectangle • Similar Figures 	<ul style="list-style-type: none"> • Shape recognition.pdf: Correctly name shapes regardless of their orientations or overall size. <ul style="list-style-type: none"> - Shapes Scavenger Hunt - Shapes and Positioning
Identify similarities and differences of two-dimensional shapes.	<ul style="list-style-type: none"> • Songs: Same and Different; Corners and Sides; Marmot Shapes; Shapes, Shapes, Shapes • Circle, Square, Triangle, Rectangle • Similar Figures 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Reason with shapes and their Attributes continued</i>		
Make flat shape pictures.	<ul style="list-style-type: none"> • Geoboard • Tangrams 	<ul style="list-style-type: none"> • 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"> - Building Shapes
Sort & classify objects using one or two attributes.	<ul style="list-style-type: none"> • Song; All Sorts of Laundry • Book: Buttons, Buttons • Sort • Similar Figures 	<ul style="list-style-type: none"> • Classifying objects.pdf: Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. <ul style="list-style-type: none"> - Let's Sort - Sort
Name and sort three-dimensional shapes.	<ul style="list-style-type: none"> • Song: Same and Different • Sort • Star, Semicircle, Octagon, Oval, Rhombus • Solid Shapes • Space Shapes • Simple Shapes 	<ul style="list-style-type: none"> • Shape recognition.pdf: Correctly name shapes regardless of their orientations or overall size. <ul style="list-style-type: none"> - Shapes Scavenger Hunt - Shapes and Positioning
Understand that three-dimensional shapes are made up of two-dimensional shapes.	<ul style="list-style-type: none"> • Song: Corners and Sides • Simple Shapes • Solid Shapes • Space Shapes • Similar Figures 	<ul style="list-style-type: none"> • Compare shapes.pdf: Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length). <ul style="list-style-type: none"> - Comparing Shapes
Recognize that the name of a shape stays the same regardless of orientation or size.	<ul style="list-style-type: none"> • Songs: Kites; Shapes, Shapes, Shapes • Books: The Shape of Things; Imagination Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Simple Shapes • Solid Shapes • World Shapes • Similar Figures 	<ul style="list-style-type: none"> • Shape recognition.pdf: Correctly name shapes regardless of their orientations or overall size. <ul style="list-style-type: none"> - Shapes Scavenger Hunt - Shapes and Positioning

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Data Analysis		
Collect, Classify, Organize, Represent, Interpret & Analyze Data		
Sort and classify using one or two attributes and count the number of objects in each category.	<ul style="list-style-type: none"> • Songs: Same and Different; All Sorts of Laundry • Book: Buttons, Buttons • Sort • Make and Count Groups 	<ul style="list-style-type: none"> • Classifying objects.pdf: Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. <ul style="list-style-type: none"> - Let's Sort - Sort
Compare category counts from a graphical representation using mathematical language (greater than, less than, equal to, etc.).	<ul style="list-style-type: none"> • Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make and Count Groups 	<ul style="list-style-type: none"> • 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"> - Beans and More - More Than Buttons - Short Names, Long Names - Noodle Necklaces - Groups Do Count! - More Than, Fewer Than, Equal - Which Has More? - Fewer Than
FIRST GRADE		
Number Sense & Operations		
Number Names and Count Sequence		
Use cardinal and ordinal numbers.	<ul style="list-style-type: none"> • Song: Ordinals • Ordinal Numbers • Number Songs • Counting Songs • Number Counting • Number Instruction 	
Count forward to 120 beginning from a given number less than 120.	<ul style="list-style-type: none"> • Song: Counting On • Count On • Number Chart 	<ul style="list-style-type: none"> • Count to 120.pdf: Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. <ul style="list-style-type: none"> - Mystery Numbers - I Can Write Numbers to 99 - Numbers 20-29; 30-39; 40-49; 50-59; 60-69 - Counting to 89 - Counting Charts: - I Can Count to 50; 100; 99; 120

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Number Names and Count Sequence <i>continued</i>		
Count backward from a given number between 20 and 1.	<ul style="list-style-type: none"> • Song: Counting Backward • Book: A Space Adventure • Counting Back 	
Read and write numerals from 0 to 120.	<ul style="list-style-type: none"> • Song: Counting On • Count On • Number Chart 	<ul style="list-style-type: none"> • Count to 120.pdf: Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. <ul style="list-style-type: none"> - Mystery Numbers - I Can Write Numbers to 99 - Numbers 20-29; 30-39; 40-49; 50-59; 60-69 - Counting to 89 - Counting Charts: - I Can Count to 50; 100; 99; 120
Count to 100 by 5s starting at any multiple of 5.	<ul style="list-style-type: none"> • Song: Skip Counting • Books: Jump Rope Rhymes; Navajo Beads • Skip Count by 5s • Number Sequences and Patterns 	
Count to 120 by 10s starting at any number.	<ul style="list-style-type: none"> • Song: Skip Counting • Books: Jump Rope Rhymes; Navajo Beads • Skip Count by 10s • Number Sequences and Patterns 	
Express numbers to 100 in standard and word forms.	<ul style="list-style-type: none"> • Song: Counting On • Count On • Number Chart 	<ul style="list-style-type: none"> • Count to 120.pdf: Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. <ul style="list-style-type: none"> - Mystery Numbers - I Can Write Numbers to 99 - Numbers 20-29; 30-39; 40-49; 50-59; 60-69 - Counting to 89 - Counting Charts: - I Can Count to 50; 100; 99; 120

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Relationships Between Numbers and Quantities		
Use concrete and pictorial models to create a set with a given number of objects (to 120).	<ul style="list-style-type: none"> • Book: Hooray, Hooray for the One Hundredth Day! 	
Represent numbers to 100 on a number line.	<ul style="list-style-type: none"> • Number Line 	
Compare two two-digit numbers using the symbols $>$, $<$ or $=$.	<ul style="list-style-type: none"> • Place Value • Greater Than, Less Than (2-digit Numbers) 	<ul style="list-style-type: none"> • 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 $>$, $=$, and $<$. <ul style="list-style-type: none"> - More or Less Spinner - Catch Me if You Can! - What Are You Looking For? - Two-Pile Sort
Compare and order using the terms same, more, fewer, greater than, less than, equal to, greatest, and least.	<ul style="list-style-type: none"> • Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make and Count Groups 	<ul style="list-style-type: none"> • 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"> - Beans and More - More Than Buttons - Short Names, Long Names - Noodle Necklaces - Groups Do Count! - More Than, Fewer Than, Equal - Which Has More? - Fewer Than
Place Value		
Understand that 10 can be thought of as a bundle of 10 ones, called a “ten”.	<ul style="list-style-type: none"> • Song: Place Value • Place Value of 2-digit Numbers • Add with Manipulatives 	<ul style="list-style-type: none"> • 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"> - Popsicles to Ten
Group objects and numbers up to 100 in tens and ones.	<ul style="list-style-type: none"> • Song: Place Value • Place Value of 2-digit Numbers • Add with Manipulatives 	<ul style="list-style-type: none"> • 11-19 broken down.pdf: The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. <ul style="list-style-type: none"> - Toss It - Make a Number - Numbers 10-19 - More Numbers 10-19

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Place Value continued</i>		
Use place value models, place value charts, and a 100 chart to represent numbers to 100.	<ul style="list-style-type: none"> • Song: Place Value • Place Value • Number Chart 	
Calculate 10 more or 10 less than a given number mentally without having to count.	<ul style="list-style-type: none"> • Song: Skip Counting • Book: Navajo Beads • Add • Subtract • Add Tens • Subtract Tens • Skip Count by 10 • Number Chart 	<ul style="list-style-type: none"> • Ten more or less.pdf: Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used. <ul style="list-style-type: none"> - Ten-O - Toss It - Make a Number - Subtract 10 - Flashcards - Bingo - Addition of Tens
<i>Whole Number Addition & Subtraction</i>		
Use number bonds to represent number combinations.	<ul style="list-style-type: none"> • Make and Count Groups • Add Groups • Subtract Groups • Act Out Subtraction 	<ul style="list-style-type: none"> • 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"> - Addition Cubes - Fact Families
Demonstrate fluency with addition and subtraction within 10.	<ul style="list-style-type: none"> • Songs: Fact Families; Counting On • Books: Facts about Families • Addition and Subtraction Fact Families • Addition Sentences • Subtraction Sentences • Commutative Property of Addition • Addition and Subtraction Relationship • Missing Addends • Missing Minuends and Subtrahends 	<ul style="list-style-type: none"> • 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"> - The Three Little Bears - Fact Family Bingo - A Graph of Fact Families - Bean Facts - Draw a Picture - Addition - Number Pyramid - Subtraction Sentences - Model the Story - Fact Families

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Whole Number Addition & Subtraction continued</i>		
Use models, numbers, and symbols for addition and subtraction facts to 20.	<ul style="list-style-type: none"> • Songs: Fact Families; Counting On • Books: Facts about Families • Addition and Subtraction Fact Families • Addition Sentences • Subtraction Sentences • Commutative Property of Addition • Addition and Subtraction Relationship • Missing Addends • Missing Minuends and Subtrahends • Subtraction Patterns 	<ul style="list-style-type: none"> • 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"> - The Three Little Bears - Fact Family Bingo - A Graph of Fact Families - Bean Facts - Draw a Picture - Addition - Number Pyramid - Subtraction Sentences - Model the Story - Fact Families
Develop and use addition and subtraction fact strategies.	<ul style="list-style-type: none"> • Addition and Subtraction Relationship • Addition and Subtraction Fact Families • Subtraction Patterns • Commutative Property of Addition 	<ul style="list-style-type: none"> • Strategies to add and subtract.pdf: Apply properties of operations as strategies to add and subtract. <ul style="list-style-type: none"> - Adding and Subtracting Bugs - Concentration - Related Facts
Add or subtract a multiple of 10 from another two-digit number.	<ul style="list-style-type: none"> • Addition • Subtraction • Add Tens • Subtract Tens • Addition Patterns • Subtraction Patterns • Add • Subtract • Place Value • Addition and Subtraction Relationship 	<ul style="list-style-type: none"> • 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"> - Ten-O - Bingo - Subtract Multiples of 10

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Whole Number Addition & Subtraction <i>continued</i>		
Add within 100.	<ul style="list-style-type: none"> • Addition • Add Tens • Add with Manipulatives • Add Vertical Squares • Add with Beads • Addition and Subtraction Relationship • Add with Regrouping Concept • Add 2-digit and 1-digit Numbers with Regrouping • Add 2-digit Numbers without Regrouping • Add 2-digit Numbers with Regrouping 	<ul style="list-style-type: none"> • Adding within 100.pdf: The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones). <ul style="list-style-type: none"> - Drawing Tens - Beans, Beans, and More Beans - The Kingdom of Popsicle Stick-Filled Purses - Straws and Macaroni - Bean Addition - Newsletter - Adding Tens and Ones - Color Adds Up - Cookies and Milk! - Addition of Two-Digit Numbers - Addition and Subtraction of Large Numbers
Create addition and subtraction stories.	<ul style="list-style-type: none"> • Make a Math Story 	
Fraction Concepts & Operations		
Partition circles and rectangles into two or four equal shares.	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; Half For You and Half For Me • Equal-part Fractions • Label Parts of Fractions 	<ul style="list-style-type: none"> • 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"> - Make It Equal - Fraction Friends - Fraction Train - Halves, Thirds, Fourths - Equal Parts

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Fraction Concepts & Operations continued</i>		
<p>Describe the shares using the words halves, fourths, and quarters and use the phrases half of, fourth of, and a quarter of.</p>	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; Half For You and Half For Me • Equal-part Fractions • Label Parts of Fractions 	<ul style="list-style-type: none"> • 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"> - Make It Equal - Fraction Friends - Fraction Train - Halves, Thirds, Fourths - Equal Parts
<p>Describe the whole as two of, or four of the shares.</p>	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; Half For You and Half For Me • Equal-part Fractions • Label Parts of Fractions 	<ul style="list-style-type: none"> • 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"> - Make It Equal - Fraction Friends - Fraction Train - Halves, Thirds, Fourths - Equal Parts
<p>Understand that decomposing a shape into more equal shares creates smaller shares.</p>	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; Half For You and Half For Me • Equal-part Fractions • Label Parts of Fractions 	<ul style="list-style-type: none"> • 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"> - Make It Equal - Fraction Friends - Fraction Train - Halves, Thirds, Fourths - Equal Parts

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Algebraic Thinking		
Properties of Operations		
Model addition and subtraction situations and use these representations to solve problems within 20.	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Missing Addends • Missing Minuends and Subtrahends 	
Solve problems involving three whole numbers whose sum is within 20.	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Add 3 One-digit Numbers • Missing Addends • Missing Minuends and Subtrahends 	
Understand the relationship between the numbers in fact families.	<ul style="list-style-type: none"> • Songs: Fact Families; Counting On • Books: Facts about Families • Addition and Subtraction Fact Families • Addition Sentences • Subtraction Sentences • Commutative Property of Addition • Addition and Subtraction Relationship • Missing Addends • Missing Minuends and Subtrahends • Add 3 One-digit Numbers • Subtraction Patterns 	
Use the associative and commutative properties as strategies to add and subtract.	<ul style="list-style-type: none"> • Addition and Subtraction Relationship • Addition and Subtraction Fact Families • Addition Patterns • Subtraction Patterns • Commutative Property of Addition 	<ul style="list-style-type: none"> • Strategies to add and subtract.pdf: Apply properties of operations as strategies to add and subtract. <ul style="list-style-type: none"> - Adding and Subtracting Bugs - Concentration - Related Facts
Demonstrate that subtraction can be solved as an unknown-addend problem.	<ul style="list-style-type: none"> • Missing Addends • Subtraction Patterns • Addition and Subtraction Fact Families 	<ul style="list-style-type: none"> • Understand subtraction as an unknown addend problem.pdf: Understand subtraction as an unknown-addend problem. Add and subtract within 20. <ul style="list-style-type: none"> - Write each subtraction problem as an addition problem and solve it.

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Number Sentences, Equations & Inequalities		
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"> • Song: Fact Families • Book: Facts About Families • Addition and Subtraction Fact Families • Addition and Subtraction Relationship • Commutative Property of Addition • Addition Sentences • Subtraction Sentences • Greater Than, Less Than • More Than, Fewer Than 	<ul style="list-style-type: none"> • 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"> - Show Me! - Tricky Total - Domino Addition - Domino Subtraction - Playground Fact Snake
Model addition and subtraction situations by writing addition and subtraction number sentences.	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Missing Addends • Missing Minuends and Subtrahends 	
Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Missing Addends • Missing Minuends and Subtrahends 	
Solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	<ul style="list-style-type: none"> • Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Missing Addends • Missing Minuends and Subtrahends 	
Geometry & Measurement		
Time & Money		
Identify and know coin values (penny, nickel, dime, quarter).	<ul style="list-style-type: none"> • Songs: Money; Save Your Pennies • Book: Bugs For Sale • Coin Identification • Coin Value • Quarters • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Count Coins • Equivalent Sums of Money 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Time & Money continued</i>		
Read a calendar to identify the days of the week, months, and seasons of the year.	<ul style="list-style-type: none"> • Songs: Seasons; Days of the Week; Months of the Year • Book: That’s What I Like: A Book About Seasons • Calendar • Spring • Summer • Fall • Winter 	
Tell time to the hour and half hour.	<ul style="list-style-type: none"> • Song: Clock Hands • Books: Mr. Romano’s Secret: A Time Story • Tell Time to the Hour • Tell Time to the Half-Hour 	<ul style="list-style-type: none"> • Hours and half-hours.pdf: Tell and write time in hours and half-hours using analog and digital clocks. • What Comes After, Before, Or Between? <ul style="list-style-type: none"> - Make Your Own Clock - Learning to Tell Time - Matching Time - What Numbers Are Missing? - What Time Is It? - Time of Day - Clock flashcards
<i>Length & Distance</i>		
Use a start line to measure length.	<ul style="list-style-type: none"> • Number Line • Length 	
Measure lengths, using non-standard units.	<ul style="list-style-type: none"> • Length • Nonstandard Units of Length 	<ul style="list-style-type: none"> • Length Measurement.pdf: Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <ul style="list-style-type: none"> - Measures of Me - Measure a Handful - Estimating Length - A Fruit and Vegetable - Measure Up! - Inches/Centimeters Rulers

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Length & Distance continued</i>		
Compare two lengths by comparing each with a third length (transitivity).	<ul style="list-style-type: none"> Length Nonstandard Units of Length 	<ul style="list-style-type: none"> 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"> Estimating Length A Fruit and Vegetable Measure
Order three or more objects by length.	<ul style="list-style-type: none"> Length Nonstandard Units of Length 	<ul style="list-style-type: none"> 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"> Estimating Length A Fruit and Vegetable Measure
Understand the need for equal-length units to measure.	<ul style="list-style-type: none"> Length Nonstandard Units of Length 	<ul style="list-style-type: none"> Length Measurement.pdf: Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <ul style="list-style-type: none"> Measures of Me Measure a Handful Estimating Length A Fruit and Vegetable Measure Up! Inches/Centimeters Rulers
Compare measurements made using different units.	<ul style="list-style-type: none"> Length Standard Units of Length Measurement Tools 	<ul style="list-style-type: none"> 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"> Ready, Set, Measure
<i>Size & Position</i>		
Describe position with left and right.	<ul style="list-style-type: none"> Song: Position Cat Position Right, Left 	
Use positional words to describe location.	<ul style="list-style-type: none"> Songs: Position Cat; Get Over the Bugs Book: Up In the Air Position Over, Under, Above, Below Inside, Outside, Between Above, Below, Next to, On 	<ul style="list-style-type: none"> 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"> Shapes Scavenger Hunt

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Reason with Shapes and their Attributes		
Identify two-dimensional shapes in three-dimensional shapes.	<ul style="list-style-type: none"> • Song: Kites • Books: The Shape of Things; Imagination Shapes • World Shapes • Similar Figures 	
Recognize two- and three-dimensional shapes from different perspectives and orientations.	<ul style="list-style-type: none"> • Song: Corners and Sides • Simple Shapes • Solid Shapes • Space Shapes • Congruence • Tangrams • Similar Figures 	<ul style="list-style-type: none"> • Compare shapes.pdf: Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/“corners”) and other attributes (e.g., having sides of equal length). <ul style="list-style-type: none"> - Comparing Shapes
Identify real-world two- and three-dimensional shapes.	<ul style="list-style-type: none"> • Song: Kites • Books: The Shape of Things; Imagination Shapes • World Shapes 	
Identify and describe attributes & properties of two-dimensional shapes.	<ul style="list-style-type: none"> • Songs: Corners and Sides; Marmot Shapes • Simple Shapes • Circle, Square, Triangle, Rectangle • Congruence • Tangrams • Similar Figures 	<ul style="list-style-type: none"> • Compare shapes.pdf: Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/“corners”) and other attributes (e.g., having sides of equal length). <ul style="list-style-type: none"> - Comparing Shapes
Sort & classify two- and three-dimensional shapes.	<ul style="list-style-type: none"> • Songs: Same and Different; All Sorts of Laundry • Book: Buttons, Buttons • Sort • Make and Count Groups 	<ul style="list-style-type: none"> • Classifying objects.pdf: Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. <ul style="list-style-type: none"> - Let’s Sort - Sort
Compose and decompose two- and three-dimensional shapes.	<ul style="list-style-type: none"> • Geoboard • Tangrams 	<ul style="list-style-type: none"> • Form larger shapes.pdf: Compose simple shapes to form larger shapes. <ul style="list-style-type: none"> - Combining Shapes

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Reason with Shapes and their Attributes <i>continued</i>		
<p>Understand the inverse relationship between the size of a unit and the number of units needed to measure the same length.</p>	<ul style="list-style-type: none"> • Length • Nonstandard Units of Length 	<ul style="list-style-type: none"> • Length Measurement.pdf: Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <ul style="list-style-type: none"> - Measures of Me - Measure a Handful - Estimating Length - A Fruit and Vegetable - Measure Up! - Inches/Centimeters Rulers
Data Analysis		
Collect, Classify, Organize, Represent, Interpret & Analyze Data		
<p>Sort and classify data in order to make graphs.</p>	<ul style="list-style-type: none"> • Song: Graphing • Book: Buttons, Buttons • Sort • Make and Count Groups 	<ul style="list-style-type: none"> • Classifying objects.pdf: Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. <ul style="list-style-type: none"> - Let's Sort - Sort
<p>Collect and organize data in different ways.</p>	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Collect, Classify, Organize, Represent, Interpret & Analyze Data <i>continued</i>		
Represent measurements and data in picture graphs, tally charts, and bar graphs.	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables
Interpret data in picture graphs, tally charts, and bar graphs.	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables
Read bar graphs with scales.	<ul style="list-style-type: none"> • Song: Graphing • Bar Graphs • Graphing • Use Graphs and Tables 	
Solve problems involving data.	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
SECOND GRADE		
Number Sense & Operations		
Number Names and Count Sequence		
Read and write numerals to 1,000 using number names, base-ten numerals, and expanded form.	<ul style="list-style-type: none"> Sequences of 2-digit Numbers Sequences of 3-digit Numbers Number Chart Place Value 	<ul style="list-style-type: none"> Read and write numbers to 1000.pdf: Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. <ul style="list-style-type: none"> Cube Trails Race for a Flat High/Low Number Cube Throw Lucky Five
Count to 1,000 by 1's, 10's and 100's starting with any number.	<ul style="list-style-type: none"> Song: Skip Counting Book: Jump Rope Rhymes Skip Count Skip Count by 10 Skip Count by 5 Number Sequences and Patterns 	<ul style="list-style-type: none"> Counting within 1000.pdf: Count within 1,000; skip-count by 5s, 10s, and 100s. <ul style="list-style-type: none"> Chart Patterns My 199; 200; 299; 300; 399; 400; 499; 500; 599; 600; 699; and 700 Picture 900 Chart
Count by 2's to 100 starting with any even number.	<ul style="list-style-type: none"> Songs: Skip Counting; Odd Todd and Even Steven Skip Count by 2 	<ul style="list-style-type: none"> Odd and even recognition.pdf: Determine whether a group of objects (up to 20) has an odd or even number of members. <ul style="list-style-type: none"> Missing Patterns Counting by 2s What's My Number?
Count by multiples of ones, tens, and hundreds starting from various values.	<ul style="list-style-type: none"> Song: Skip Counting Book: Jump Rope Rhymes Skip Count Skip Count by 10 Skip Count by 5 Number Sequences and Patterns 	<ul style="list-style-type: none"> Counting within 1000.pdf: Count within 1,000; skip-count by 5s, 10s, and 100s. <ul style="list-style-type: none"> Chart Patterns My 199; 200; 299; 300; 399; 400; 499; 500; 599; 600; 699; and 700 Picture 900 Chart
Relationships Between Numbers and Quantities		
Use concrete and pictorial models to create a set with a given number of objects (to 1,000).	<ul style="list-style-type: none"> Place Value Counting Make and Count Groups Number Recognition and Sense 	
Represent numbers to 1,000 on a number line.	<ul style="list-style-type: none"> Number Line Number Sequences and Patterns 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Relationships Between Numbers and Quantities <i>continued</i>		
Compare numbers to 1,000 using the symbols $>$, $<$ or $=$.	<ul style="list-style-type: none"> Greater Than, Less Than (3-digit Numbers) 	<ul style="list-style-type: none"> Less than, equal to, or greater than.pdf: Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record the results of comparisons. <ul style="list-style-type: none"> More or Less The Hands Have It! Larger or Smaller? Comparing Number Cards $<$, $>$, $=$ Cards Greater Than, Less Than, Equal To
Order whole numbers to 1,000.	<ul style="list-style-type: none"> Number Sequences and Patterns Number Chart 	
Determine if a set of objects has an odd or even number of members.	<ul style="list-style-type: none"> Song: Odd Todd and Even Steven Skip Count by 2 Addition Facts 	<ul style="list-style-type: none"> Odd and even recognition.pdf: Determine whether a group of objects (up to 20) has an odd or even number of members. <ul style="list-style-type: none"> Missing Patterns Counting by 2s What's My Number?
Place Value		
Use place-value models to create equivalent representations of numbers.	<ul style="list-style-type: none"> Song: Place Value Place Value of 2-digit Numbers Place Value of 3-digit Numbers Greater Than, Less Than (3-digit Numbers) 	<ul style="list-style-type: none"> Less than, equal to, or greater than.pdf: Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record the results of comparisons. <ul style="list-style-type: none"> More or Less The Hands Have It! Larger or Smaller? Comparing Number Cards $<$, $>$, $=$ Cards Greater Than, Less Than, Equal To
Understand that 100 can be thought of as 10 tens, called a "hundred".	<ul style="list-style-type: none"> Song: Place Value Place Value Place Value of 3-digit Numbers 	<ul style="list-style-type: none"> Thinking of 100 as a bundle of ten 10s.pdf: 100 can be thought of as a bundle of ten tens—called a "hundred." <ul style="list-style-type: none"> The Kingdom of Popsicle Stick-Filled Purses

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Place Value <i>continued</i>		
Group objects and numbers up to 1,000 into hundreds, tens, and ones.	<ul style="list-style-type: none"> • Song: Place Value • Place Value • Place Value of 3-digit Numbers 	<ul style="list-style-type: none"> • Grouping hundreds.pdf: The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). <ul style="list-style-type: none"> - My Three-Digit Numbers
Use place value models, place value charts, and a 100 chart to represent numbers to 1,000.	<ul style="list-style-type: none"> • Song: Place Value • Number Chart • Place Value • Place Value of 3-digit Numbers 	
Express numbers to 1000 in standard and word forms.		<ul style="list-style-type: none"> • Read and write numbers to 1000.pdf: Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. <ul style="list-style-type: none"> - Cube Trails - Race for a Flat - High/Low Number Cube Throw - Lucky Five
Calculate 10 or 100 more or less than a given number within 1,000 mentally without having to count.	<ul style="list-style-type: none"> • Skip Count • Place Value • Number Chart • Number Patterns • Mental Math Games 	<ul style="list-style-type: none"> • Mentally adding or subtracting 10 or 100.pdf: Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900. <ul style="list-style-type: none"> - Spin and Solve
Whole Number Addition & Subtraction		
Use number bonds to represent number combinations.		<ul style="list-style-type: none"> • 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"> - Addition Cubes - Fact Families
Compose and decompose multi-digit numbers.	<ul style="list-style-type: none"> • Place Value 	<ul style="list-style-type: none"> • 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"> - Place Value 11-19

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Whole Number Addition & Subtraction continued</i>		
<p>Recall addition and subtraction fact strategies.</p>	<ul style="list-style-type: none"> • Place Value • Addition and Subtraction Relationship • Commutative Properties of Addition • Addition • Subtraction • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping • Act Out Addition • Act Out Subtraction 	<ul style="list-style-type: none"> • 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"> - Choose and Add - Mix and Match Addition - Expanded Subtraction - Subtracting Repeats - 999 - Prediction - Up and Away - Regrouping Treasure Hunt - Play Ball - Squirrel Facts
<p>Know all sums of two one-digit numbers. Automaticity for basic facts is desired.</p>	<ul style="list-style-type: none"> • Songs: Fact Families; Doubles • Subtraction Patterns • Addition Facts to 20 	<ul style="list-style-type: none"> • Adding and subtracting within 20.pdf: Fluently add and subtract within 20 using mental strategies. By end of grade 2, know from memory all sums of two one-digit numbers. <ul style="list-style-type: none"> - Sets of flashcards: - Addition—horizontal - Subtraction—horizontal - Addition—vertical - Subtraction—vertical - Addition and subtraction—horizontal and vertical



NWEA MAP SKILLS ALIGNMENT K-2 MATH

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Whole Number Addition & Subtraction continued</i>		
<p>Fluency within 20: Use mental strategies to demonstrate fluency with sums and differences (Sums within 20 and the starting point for subtraction problems within 20). (Note: Fluency refers to accuracy and efficiency and does not equate to memorization.)</p>	<ul style="list-style-type: none"> • Songs: Fact Families; Doubles • Subtraction Patterns • Addition Facts to 20 	<ul style="list-style-type: none"> • Adding and subtracting within 20.pdf: Fluently add and subtract within 20 using mental strategies. By end of grade 2, know from memory all sums of two one-digit numbers. <ul style="list-style-type: none"> - Sets of flashcards: - Addition—horizontal - Subtraction—horizontal - Addition—vertical - Subtraction—vertical - Addition and subtraction—horizontal and vertical
<p>Fluency within 100: Use strategies based on place value (including composing and decomposing tens), properties of operations, and/or the relationship between addition and subtraction to demonstrate fluency with addition and subtraction within 100. (Note: Fluency refers to accuracy and efficiency and does not equate to memorization.)</p>	<ul style="list-style-type: none"> • Place Value • Addition and Subtraction Relationship • Commutative Properties of Addition • Addition • Subtraction • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping 	<ul style="list-style-type: none"> • Add and subtract within 100.pdf: Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. <ul style="list-style-type: none"> - Addition of Two-Digit Numbers - Tic Tac Toe - Subtraction of Two-Digit Numbers

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Whole Number Addition & Subtraction <i>continued</i>		
<p>Add and subtract within 1,000 and justify answers using concrete models, drawings, or symbols that convey strategies connected to place value understanding.</p>	<ul style="list-style-type: none"> • Place Value • Addition and Subtraction Relationship • Commutative Properties of Addition • Addition • Subtraction • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping • Act Out Addition • Act Out Subtraction 	<ul style="list-style-type: none"> • 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"> - Choose and Add - Mix and Match Addition - Expanded Subtraction - Subtracting Repeats - 999 - Prediction - Up and Away - Regrouping Treasure Hunt - Play Ball - Squirrel Facts
Whole Number Multiplication & Division		
<p>Find the total number of objects arranged in a rectangular array with up to five rows and 5 columns.</p>	<ul style="list-style-type: none"> • Addition • Multiply Using Repeated Addition • Multiply Using Arrays 	
<p>Write an equation to represent the total number of objects arranged in a rectangular array as a sum of equal addends.</p>	<ul style="list-style-type: none"> • Addition • Multiply Using Repeated Addition • Multiply Using Arrays 	
<p>Partition a rectangle into rows and columns of same-size squares and count to find the total number of squares.</p>	<ul style="list-style-type: none"> • Song: Fractions • Fractions of Regions 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Fraction Concepts & Operations		
Partition circles and rectangles into two, three, or four equal shares.	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; The Fraction Twins • Fractions • Label Parts of Fractions • Fractions of Regions • Fractions of Groups 	<ul style="list-style-type: none"> • 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"> - Frenzied Fraction Fun - Fabulous Fractions
Describe the shares using the words halves, thirds, fourths, and quarters and use the phrases half of, third of, fourth of, and a quarter of.	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; The Fraction Twins • Fractions • Label Parts of Fractions • Fractions of Regions • Fractions of Groups 	<ul style="list-style-type: none"> • 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"> - Frenzied Fraction Fun - Fabulous Fractions
Describe the whole as two of, three of, or four of the shares	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; Half For You and Half For Me • Equal-part Fractions • Label Parts of Fractions 	<ul style="list-style-type: none"> • 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"> - Make It Equal - Fraction Friends - Fraction Train - Halves, Thirds, Fourths - Equal Parts
Demonstrate that there are various ways to divide identical wholes into equal shares.	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; The Fraction Twins • Fractions • Label Parts of Fractions • Fractions of Regions • Fractions of Groups 	<ul style="list-style-type: none"> • 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"> - Frenzied Fraction Fun - Fabulous Fractions



NWEA MAP SKILLS ALIGNMENT K-2 MATH

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Algebraic Thinking		
Properties of Operations		
Use the relationship between addition and subtraction to solve problems.	<ul style="list-style-type: none"> • Place Value • Addition and Subtraction Relationship • Commutative Properties of Addition • Addition • Subtraction • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping 	<ul style="list-style-type: none"> • Add and subtract within 100.pdf: Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. <ul style="list-style-type: none"> - Addition of Two-Digit Numbers - Tic Tac Toe - Subtraction of Two-Digit Numbers
Use the associative and commutative properties as strategies to add and subtract.	<ul style="list-style-type: none"> • Place Value • Addition and Subtraction Relationship • Commutative Properties of Addition • Addition • Subtraction • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping 	<ul style="list-style-type: none"> • Add and subtract within 100.pdf: Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. <ul style="list-style-type: none"> - Addition of Two-Digit Numbers - Tic Tac Toe - Subtraction of Two-Digit Numbers
Number Sentences, Equations & Inequalities		
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.	<ul style="list-style-type: none"> • Book: Painting by Number • Addition • Subtraction • Missing Addends and Subtrahends • Subtraction Sentences • Addition and Subtraction Facts 	<ul style="list-style-type: none"> • One- and two-step word problems within 100. pdf: 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. <ul style="list-style-type: none"> - Animal Math - Picture Problems - Color the Chart - Think About it Differently - Act it Out - Guess and Check

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Number Sentences, Equations & Inequalities <i>continued</i>		
Express even numbers as being composed of equal groups and write a number sentence to represent the number with 2 equal addends.	<ul style="list-style-type: none"> • Song: Doubles • Doubles 	
Express even numbers as pairings/ groups of 2, and write a number sentence to represent the number using addends of 2.	<ul style="list-style-type: none"> • Songs: Doubles; Odd Todd and Even Steven • Doubles 	
Geometry & Measurement		
Time & Money		
Find and represent the value of combinations of dollar bills, quarters, dimes, nickels, and pennies using \$ and ¢ appropriately.	<ul style="list-style-type: none"> • Songs: Money; Save Your Pennies • Book: Bugs For Sale • Coin Identification • Coin Value • Quarters • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Make Change • Count Coins • Count Bills and Coins • Equivalent Sums of Money 	<ul style="list-style-type: none"> • 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"> - Supermarket Hunt - Shopping for My Family - Money Combinations - Money Sums - Pizza Parlor - How Much Back? - Coin Count - Bills and Coins - Let's Count Coins - Money Addition - Change is Good! - Make 45¢
Find combinations of coins that equal a given amount.	<ul style="list-style-type: none"> • Book: Bugs For Sale • Coin Value • Count Nickels and Pennies or Dimes and Pennies • Equivalent Sums of Money 	
Tell and write time to the nearest 5 minutes.	<ul style="list-style-type: none"> • Songs: Telling Time; Clock Hands • Tell Time • Tell Time to Five Minutes • Tell Time to the Quarter Hour • Tell Time to the Minute • Tell Time to the Hour • Tell Time to the Half-hour 	<ul style="list-style-type: none"> • Tell and write time.pdf: Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. <ul style="list-style-type: none"> - Matching Clocks - Cartoon Captions - Time to 5 Minutes

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
<i>Time & Money continued</i>		
Use A.M and P.M. to write time.	<ul style="list-style-type: none"> • Book: Mr. Romano’s Secret: A Time Story 	<ul style="list-style-type: none"> • Tell and write time.pdf: Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. <ul style="list-style-type: none"> - Matching Clocks - Cartoon Captions - Time to 5 Minutes
<i>Length & Distance</i>		
Measure lengths by selecting and using an appropriate tool.	<ul style="list-style-type: none"> • Song: Measuring Plants • Book: Birds at My House • Length • Measurement Tools • Standard Units of Length 	<ul style="list-style-type: none"> • Measurement tools.pdf: Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. <ul style="list-style-type: none"> - Ready, Set, Measure - Treasure Hunt - Centimeter Ruler - Inch Ruler - Let’s Measure in Centimeters! - Let’s Measure in Inches!
Analyze the results of measuring the same object with different units.	<ul style="list-style-type: none"> • Length • Standard Units of Length • Measurement Tools 	<ul style="list-style-type: none"> • 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"> - Ready, Set, Measure
Estimate lengths.	<ul style="list-style-type: none"> • Song: Measuring Plants • Length • Standard Units of Length • Measurement Tools 	<ul style="list-style-type: none"> • Estimating lengths.pdf: Estimate lengths using units of inches, feet, centimeters, and meters. <ul style="list-style-type: none"> - Ready, Set, Measure - Treasure Hunt - Let’s Measure in Centimeters! - Let’s Measure in Inches! - Measuring Perimeter
Recognize that the size of the unit used affects the number of units required to measure an object.	<ul style="list-style-type: none"> • Length • Standard Units of Length • Measurement Tools 	<ul style="list-style-type: none"> • 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"> - Ready, Set, Measure



NWEA MAP SKILLS ALIGNMENT K-2 MATH

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Length & Distance <i>continued</i>		
Estimate and measure to compare lengths and express the difference in standard units.	<ul style="list-style-type: none"> Length Standard Units of Length Measurement Tools 	<ul style="list-style-type: none"> Measure length.pdf: Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. <ul style="list-style-type: none"> Ready, Set, Measure Treasure Hunt
Reason with Shapes and their Attributes		
Identify triangles, quadrilaterals, pentagons, hexagons, circles, cubes, prisms, and pyramids.	<ul style="list-style-type: none"> Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites Book: The Shape of Things Space Shapes World Shapes Geoboard 	<ul style="list-style-type: none"> Draw shapes.pdf: 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. <ul style="list-style-type: none"> Making Shapes Shapes Review
Describe attributes & properties of two- and three-dimensional shapes.	<ul style="list-style-type: none"> Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites Book: The Shape of Things Space Shapes World Shapes Geoboard 	<ul style="list-style-type: none"> Draw shapes.pdf: 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. <ul style="list-style-type: none"> Making Shapes Shapes Review
Draw shapes with specified attributes such as the number of angles or sides.	<ul style="list-style-type: none"> Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites Book: The Shape of Things Space Shapes World Shapes Geoboard 	<ul style="list-style-type: none"> Draw shapes.pdf: 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. <ul style="list-style-type: none"> Making Shapes Shapes Review
Sort & classify two- and three-dimensional shapes.	<ul style="list-style-type: none"> Songs: Same and Different; All Sorts of Laundry; Shapes, Shapes, Shapes Books: Buttons, Buttons; The Shape of Things Sort Space Shapes World Shapes 	
Compose and decompose two- and three-dimensional shapes.	<ul style="list-style-type: none"> Geoboard Tangrams 	<ul style="list-style-type: none"> Form larger shapes.pdf: Compose simple shapes to form larger shapes. <ul style="list-style-type: none"> Combining Shapes
Identify the faces of three-dimensional shapes.	<ul style="list-style-type: none"> Song: Corners and Sides Space Shapes World Shapes 	

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Data Analysis		
Collect, Classify, Organize, Represent, Interpret & Analyze Data		
<p>Create a line plot to represent a set of numeric data with a whole number scale.</p>	<ul style="list-style-type: none"> Measurement Tools 	<ul style="list-style-type: none"> Generating measurement data.pdf: 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. <ul style="list-style-type: none"> Measuring Inches Ready, Set, Measure Let's Measure in Centimeters! Let's Measure in Inches!
<p>Generate measurement data and display it on a line plot.</p>	<ul style="list-style-type: none"> Measurement Tools 	<ul style="list-style-type: none"> Generating measurement data.pdf: 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. <ul style="list-style-type: none"> Measuring Inches Ready, Set, Measure Let's Measure in Centimeters! Let's Measure in Inches!
<p>Draw picture graphs and/or bar graphs to represent data with up to four categories.</p>	<ul style="list-style-type: none"> Song: Graphing Graphing Bar Graphs Picture Graphs Use Graphs and Tables 	<ul style="list-style-type: none"> 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"> Questions and Answers Library Book Survey Playground Survey Rock Collections Use Graphs and Tables

NWEA MAP SKILLS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Collect, Classify, Organize, Represent, Interpret & Analyze Data <i>continued</i>		
Solve problems using information presented in line plots, picture graphs, and bar graphs.	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables
Draw conclusions from line plots, picture graphs, and bar graphs.	<ul style="list-style-type: none"> • Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables 	<ul style="list-style-type: none"> • 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"> - Questions and Answers - Library Book Survey - Playground Survey - Rock Collections - Use Graphs and Tables

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; 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; Zero Is a Big Round Hole

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 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 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; Z: The Zulu Warrior

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; Chip Chop; Adjectives Describe; Lazy Letter Q; Nouns; Verbs; Adverbs; Irregular Verbs; Preposition Ship; 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).