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CURRICULUM Correlation

Waterford Reading Academy:

Math & Science

100%

North Carolina
Standard
Course of Study
Mathematics
2017 & Science
2019

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

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NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
	MATHEMATICS	
KINDERGARTEN		
Counting and Cardinality		
Know number names and the count	ing sequence.	
NC.K.CC.1 Know number names and recognize patterns in the counting sequence by: Counting to 100 by ones.	 Number Songs Counting Songs Number Counting Number Instruction 	 Count to 100 by ones and tens.pdf: Count to 100 by ones and tens. 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
• Counting to 100 by tens.	 Song: Skip Counting Book: Navajo Beads; Jump Rope Rhymes Number Instruction Skip Counting Skip Count by 10 	 Count to 100 by ones and tens.pdf: Count to 100 by ones and tens. 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
NC.K.CC.2 Count forward beginning from a given number within the known sequence, instead of having to begin at 1.	Count OnCounting Songs	 Count forward.pdf: Count forward beginning with a given number within the known sequence. Let's Count On Toss and Count Count On by 1



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Know number names and the coun	ting sequence <i>continued</i> .	
NC.K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20, with 0 representing a count of no objects.	Math BooksCounting SongsNumber SongsNumber CountingNumber Instruction	 Write numbers 0-20.pdf: Write numbers from 0 to 20. Represent a number of objects with a written numeral. Numbers Practice Numbers Add groups Count on by 1 Number Writing Practice
Count to tell the number of objects	i.	
NC.K.CC.4 Understand the relationship between numbers and quantities. • 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 (one-to-one correspondence).	 Counting Songs Number Songs Number Counting Order Numbers One-to-one Correspondence Make and Count Groups Number Instruction 	 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. Number Walk
Recognize that the last number named tells the number of objects counted regardless of their arrangement (cardinality).	 Make and Count Groups Number Counting Number Instruction Match Numbers One-to-One Correspondence 	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. Mixed Up Counting
State the number of objects in a group, of up to 5 objects, without counting the objects (perceptual subitizing).	Moving Target (Dots)Match NumbersDominoes	
NC.K.CC.5 Count to answer "How many?" in the following situations: • Given a number from 1–20, count out that many objects.	 Counting Songs Number Songs Make and Count Groups Number Counting Number Instruction Numbers Review One-to-one Correspondence 	 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. Hoop Addition



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Count to tell the number of objects	s continued.	
 Given up to 20 objects, name the next successive number when an object is added, recognizing the quantity is one more/greater. 	 Counting Songs Count On by 1 Make and Count Groups Number Counting Number Instruction One-to-one Correspondence 	 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. Hoop Addition
Given 20 objects arranged in a line, a rectangular array, and a circle, identify how many.	 Make and Count Groups Number Counting Number Instruction One-to-one Correspondence 	 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. Hoop Addition
Given 10 objects in a scattered arrangement, identify how many.	 Make and Count Groups Number Counting Number Instruction One-to-one Correspondence 	 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. Hoop Addition
Compare numbers.		
NC.K.CC.6 Identify whether the number of objects, within 10, in one group is greater than, less than, or equal to the number of objects in another group, by using matching and counting strategies.	 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 	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. 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
NC.K.CC.7 Compare two numbers, within 10, presented as written numerals.	 Song: Greater Than, Less Than Book: For the Birds Greater Than, Less Than More Than, Fewer Than More Than Fewer Than 	 Compare two numbers.pdf: Compare two numbers between 1 and 10 presented as written numerals. More or Less Spinner Catch Me If You Can! Greater or Less Less or Greater



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Operations and Algebraic Thinking		
Understand addition and subtraction	on.	
NC.K.OA.1 Represent addition and subtraction, within 10: Use a variety of representations such as objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, or expressions.	 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 	 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. Addition Cubes Addition Stories Going Fishing Let's Count On Act it out Stories Manipulative Stories
Demonstrate understanding of addition and subtraction by making connections among representations.	 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 	 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. Addition Cubes Addition Stories Going Fishing Let's Count On Act it out Stories Manipulative Stories



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Understand addition and subtraction	on continued.	
NC.K.OA.2 Solve addition and subtraction word problems, within 10, using objects or drawings to represent the problem, when solving: • Add to/Take From-Result Unknown	 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 	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. 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
Put Together/ Take Apart (Total Unknown and Two Addends Unknown)	 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 Missing Addends Missing Minuends and Subtrahends 	 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. 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



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Understand addition and subtraction	on continued.	
NC.K.OA.3 Decompose numbers less than or equal to 10 into pairs in more than one way using objects or drawings, and record each decomposition by a drawing or expression.	Make and Count GroupsAdd GroupsSubtract GroupsAct Out Subtraction	 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. Addition Cubes Fact Families
NC.K.OA.4 For any number from 0 to 10, find the number that makes 10 when added to the given number using objects or drawings, and record the answer with a drawing or expression.	Make 10Missing AddendsCount OnAct Out Addition	 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. How Many More?
NC.K.OA.5 Demonstrate fluency with addition and subtraction within 5.	 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 	
NC.K.OA.6 Recognize and combine groups with totals up to 5 (conceptual subitizing).	Make and Count GroupsAdd GroupsAct Out Addition	
Number and Operations in Base Te	n	
Build foundation for place value.		
NC.K.NBT.1 Compose and decompose numbers from 11 to 19 into ten ones and some further ones by: • Using objects or drawings.	Place Value	 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. Place Value 11-19



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Build foundation for place value co	ntinued.	
Recording each composition or decomposition by a drawing or expression.	Place Value	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. Place Value 11-19
Understanding that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	Place Value	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. Place Value 11-19
Measurement and Data		
Describe and compare measurable	attributes.	
NC.K.MD.1 Describe measurable attributes of objects; and describe several different measurable attributes of a single object.	 Song: Measuring Plants Length 	Measurable attributes.pdf: Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. Filling Table Order It Up Straw Rulers Measuring Walk Heavy or Light Make A Balance Measurable Attributes



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Describe and compare measurable	attributes <i>continued</i> .	
NC.K.MD.2 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.	 Songs: Savanna Size, Measuring Plants Capacity Length Weight Big and Little Tall and Short Heavy and Light Size 	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. 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
Classify objects and count the num	ber of objects in each category.	
NC.K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.	 Songs: Same and Different; All Sorts of Laundry Book: Buttons, Buttons Sort Make and Count Groups 	 Classifying objects.pdf: Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. Let's Sort Sort



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Geometry		
Identify and describe shapes.		
NC.K.G.1 Describe objects in the environment using names of shapes, and describe the relative positions of objects using positional terms.	 Songs: Position Cat; Kites; Get Over the Bugs; Shapes, Shapes, Shapes Books: The Shape of Things; Imagination Shapes; Up In the Air Position Over, Under, Above, Below Inside, Outside, Between Circle, Square, Triangle, Rectangle Star, Semicircle, Octagon, Oval, Rhombus Simple Shapes Solid Shapes World Shapes Above, Below, Next to, On 	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. Shapes Scavenger Hunt
NC.K.G.2 Correctly name squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres regardless of their orientations or overall size.	 Songs: Shapes, Shapes, Shapes; Marmot Shapes Books: The Shape of Things; Imagination Shapes Circle, Square, Triangle, Rectangle Star, Semicircle, Octagon, Oval, Rhombus Simple Shapes Solid Shapes World Shapes 	 Shape recognition.pdf: Correctly name shapes regardless of their orientations or overall size. Shapes Scavenger Hunt Shapes and Positioning
NC.K.G.3 Identify squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres as two- dimensional or three-dimensional.	Solid ShapesSpace ShapesSimple Shapes	 Two-dimensional shapes.pdf: Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid"). Shapes and Positioning
Analyze, compare, create, and com	oose shapes.	
NC.K.G.4 Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, attributes and other properties.	 Song: Corners and Sides Simple Shapes Solid Shapes Space Shapes Congruence Tangrams Similar Figures 	 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). Comparing Shapes



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Analyze, compare, create, and com	pose shapes <i>continued</i> .	
NC.K.G.5 Model shapes in the world by:Building and drawing triangles, rectangles, squares, hexagons, circles.	Geoboard Tangrams	 Model shapes.pdf: Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes. Building Shapes
Building cubes, cones, spheres, and cylinders.	GeoboardTangrams	 Model shapes.pdf: Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes. Building Shapes
NC.K.G.6 Compose larger shapes from simple shapes.	Geoboard Tangrams	 Form larger shapes.pdf: Compose simple shapes to form larger shapes. Combining Shapes
FIRST GRADE		
Operations and Algebraic Thinking		
Represent and solve problems.		
NC.1.OA.1 Represent and solve addition and subtraction word problems, within 20, with unknowns, by using objects, drawings, and equations with a symbol for the unknown number to represent the problem, when solving: • Add to/Take from-Change Unknown	 Songs: Fact Families; Doubles Book: Facts About Families Addition and Subtraction Fact Families Addition and Subtraction Relationship 	 Word problems using subtraction within 20.pdf: Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. Guess and Check Model the Story
Put together/Take Apart- Addend Unknown	 Songs: Fact Families; Doubles Book: Facts About Families Unknown Addends Addition and Subtraction Relationship 	 Word problems using subtraction within 20.pdf: Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. Guess and Check Model the Story



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Represent and solve problems cont	tinued.	
Compare-Difference Unknown	 Song: Fact Families Book: Facts About Families Minuends Missing Minuends and Subtrahends Addition and Subtraction Relationship 	 Word problems using subtraction within 20.pdf: Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. Guess and Check Model the Story
NC.1.OA.2 Represent and solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, by using objects, drawings, and equations with a symbol for the unknown number.	Add 3 One-digit Numbers	 Word problems adding 3 numbers.pdf: Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20. Draw a Picture
Understand and apply the properti	es of operations.	
NC.1.OA.3 Apply the commutative and associative properties as strategies for solving addition problems.	 Addition and Subtraction Relationship Addition and Subtraction Fact Families Addition Patterns Commutative Property of Addition 	 Strategies to add and subtract.pdf: Apply properties of operations as strategies to add and subtract. Adding and Subtracting Bugs Concentration Related Facts
NC.1.OA.4 Solve an unknown-addend problem, within 20, by using addition strategies and/or changing it to a subtraction problem.	 Missing Addends Subtraction Patterns Addition and Subtraction Fact Families 	 Understand subtraction as an unknown addend problem.pdf: Understand subtraction as an unknown-addend problem. Add and subtract within 20. Write each subtraction problem as an addition problem and solve it.



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Add and subtract within 20.		
NC.1.OA.9 Demonstrate fluency with addition and subtraction within 10.	 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 Addition Patterns Subtraction Patterns 	 Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 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
NC.1.OA.6 Add and subtract, within 20, using strategies such as: Counting on	 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 	 Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 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



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Add and subtract within 20 continu	red.	
Making ten	 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 	 Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 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
Decomposing a number leading to a ten	 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 	 Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 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



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Add and subtract within 20 contin	ued.	
Using the relationship between addition and subtraction	 Song: Fact Families Addition and Subtraction Fact Families Commutative Property of Addition Addition and Subtraction Relationship Missing Addends Missing Minuends and Subtrahends Addition Patterns Subtraction Patterns 	Add and subtract within 20.pdf: Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 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
Using a number line	Book: Milton's MittensNumber LineUse the Number Line	
Creating equivalent but simpler or known sums	 Song: Fact Families Addition and Subtraction Fact Families Addition and Subtraction Relationship Missing Addends Missing Minuends and Subtrahends Addition Patterns Subtraction Patterns 	
Analyze addition and subtraction e	equations within 20.	
NC.1.OA.7 Apply understanding of the equal sign to determine if equations involving addition and subtraction are true.	 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 	 Equal sign.pdf: Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. Show Me! Tricky Total Domino Addition Domino Subtraction Playground Fact Snake



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Analyze addition and subtraction e	quations within 20 <i>continued</i> .	
NC.1.OA.8 Determine the unknown whole number in an addition or subtraction equation involving three whole numbers.	 Addition Sentences Subtraction Sentences Addition and Subtraction Fact Families Missing Addends Missing Minuends and Subtrahends 	
Number and Operations in Base Te	n	
Extend and recognize patterns in the	he counting sequence.	
NC.1.NBT.1 Count to 150, starting at any number less than 150.	Song: Counting OnCount OnNumber ChartLogic Game (Number Patterns)	
NC.1.NBT.7 Read and write numerals, and represent a number of objects with a written numeral, to 100.	Song: Counting OnCount OnNumber Chart	 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. 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
Understand place value.		
NC.1.NBT.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. • Unitize by making a ten from a collection of ten ones.	 Song: Place Value Place Value of 2-digit Numbers Add with Manipulatives 	 Tens as a bundle of ones.pdf: 10 can be thought of as a bundle of ten ones—called a "ten." Popsicles to Ten
Model the numbers from 11 to 19 as composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	 Song: Place Value Place Value of 2-digit Numbers Add with Manipulatives 	 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. Toss It Make a Number Numbers 10-19 More Numbers 10-19



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Understand place value continued.		
Demonstrate that the numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens, with 0 ones.	Place ValuePlace Value of 2-digit Numbers	 Ten groupings.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). Toss It
NC.1.NBT.3 Compare two two-digit numbers based on the value of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	 Place Value Greater Than, Less Than (2-digit Numbers) 	 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 <. More or Less Spinner Catch Me if You Can! What Are You Looking For? Two-Pile Sort
Use place value understanding and	properties of operations.	
NC.1.NBT.4 Using concrete models or drawings, strategies based on place value, properties of operations, and explaining the reasoning used, add, within 100, in the following situations: • A two-digit number and a one-digit number	 Addition Add Tens Addition and Subtraction Relationship Add with Regrouping Concept Add 2-digit and 1-digit Numbers with Regrouping 	 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). Drawing Tens Beans, Beans, and More Beans The Kingdom of Popsicle Stick-Filled Purses Straws and Macaroni Bean Addition Newsletter Adding Tens and Ones Cookies and Milk! Addition of Two-Digit Numbers Addition and Subtraction of Large Numbers



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Use place value understanding and	properties of operations continued.	
A two-digit number and a multiple of 10	 Addition Add Tens Addition and Subtraction Relationship Add with Regrouping Concept Add 2-digit Numbers without Regrouping Add 2-digit Numbers with Regrouping 	 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). 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
NC.1.NBT.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	 Song: Skip Counting Book: Navajo Beads Add Subtract Add Tens Subtract Tens Skip Count by 10 Number Chart 	 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. Ten-O Toss It Make a Number Subtract 10 Flashcards Bingo Addition of Tens
NC.1.NBT.6 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90, explaining the reasoning, using: Concrete models and drawings	 Subtraction Subtract Tens Subtraction Patterns Subtract Use Manipulatives Make 10 Subtraction Strategy 	 Subtracting in 10s.pdf: Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90. Ten-O Bingo Subtract Multiples of 10



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Use place value understanding and	properties of operations continued.	
Number lines	 Subtraction Number Line Number Chart Subtract Place Value Make 10 Subtraction Strategy Addition and Subtraction Relationship Use Manipulatives 	 Subtracting in 10s.pdf: Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90. Ten-O Bingo Subtract Multiples of 10
Strategies based on place value	 Subtraction Subtract Tens Subtraction Patterns Make 10 Subtraction Strategy Place Value Addition and Subtraction Relationship Use Manipulatives 	 Subtracting in 10s.pdf: Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90. Ten-O Bingo Subtract Multiples of 10
Properties of operations	 Subtraction Subtract Tens Subtraction Patterns Subtract Make 10 Subtraction Strategy Addition and Subtraction Relationship Use Manipulatives 	 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. Addition of Two-Digit Numbers Tic Tac Toe Subtraction of Two-Digit Numbers
The relationship between addition and subtraction	 Subtraction Subtract Tens Make 10 Subtraction Strategy Subtraction Patterns Subtract Place Value Addition and Subtraction Relationship Use Manipulatives 	 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. Addition of Two-Digit Numbers Tic Tac Toe Subtraction of Two-Digit Numbers



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Measurement and Data		
Measure lengths.		
NC.1.MD.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.	LengthNonstandard Units of Length	 Order by length.pdf: Order three objects by length; compare the lengths of two objects indirectly by using a third object. Estimating Length A Fruit and Vegetable Measure
NC.1.MD.2 Measure lengths with non-standard units. Express the length of an object as a whole number of non-standard length units.	Length Nonstandard Units of Length	 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. Measures of Me Measure a Handful Estimating Length A Fruit and Vegetable Measure Up! Inches/Centimeters Rulers
Measure by laying multiple copies of a shorter object (the length unit) end to end (iterating) with no gaps or overlaps.	Length Nonstandard Units of Length	 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. Measures of Me Measure a Handful Estimating Length A Fruit and Vegetable Measure Up! Inches/Centimeters Rulers



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Build understanding of time and mo	oney.	
NC.1.MD.3 Tell and write time in hours and half-hours using analog and digital clocks.	 Song: Clock Hands Books: Mr. Romano's Secret: A Time Story Tell Time to the Hour Tell Time to the Half-Hour 	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? Make Your Own Clock Learning to Tell Time Matching Time What Numbers are Missing? What Time Is It? Time of Day Clock flashcards
NC.1.MD.5 Identify quarters, dimes, and nickels and relate their values to pennies.	 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 	
Represent and interpret data.		
NC.1.MD.4 Organize, represent, and interpret data with up to three categories. • Ask and answer questions about the total number of data points.	 Songs: Tallying; Graphing Books: Painting by Number; One More Cat; The Booneville Nine Tally Marks Graphs Make a Table 	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. Ice-Cream Sundae Make a Real Object Graph Make a Weather Bar Graph Weather Flashcards Our Favorite Foods Make a Graph Make a Table How Many? Bugs! Use Graphs and Tables How Big Is Your Family?



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Represent and interpret data contin	nued.	
Ask and answer questions about how many in each category.	 Songs: Tallying; Graphing Books: Painting by Number; One More Cat; The Booneville Nine Tally Marks Graphs Make a Table 	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. Ice-Cream Sundae Make a Real Object Graph Make a Weather Bar Graph Weather Flashcards Our Favorite Foods Make a Graph Make a Table How Many? Bugs! Use Graphs and Tables How Big Is Your Family?
Ask and answer questions about how many more or less are in one category than in another.	 Songs: Tallying; Graphing Books: Painting by Number; One More Cat; The Booneville Nine Tally Marks Graphs Make a Table 	 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. Ice-Cream Sundae Make a Real Object Graph Make a Weather Bar Graph Weather Flashcards Our Favorite Foods Make a Graph Make a Table How Many? Bugs! Use Graphs and Tables How Big Is Your Family?



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Geometry		
Reason with shapes and their attrib	utes.	
 NC.1.G.1 Distinguish between defining and non-defining attributes and create shapes with defining attributes by: Building and drawing triangles, rectangles, squares, trapezoids, hexagons, circles. 	Songs: Corners and Sides; KitesGeoboardSpace Shapes	 Attributes.pdf: Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes. Sorting Shapes
Building cubes, rectangular prisms, cones, spheres, and cylinders.	Songs: Corners and Sides; KitesGeoboardSpace Shapes	 Attributes.pdf: Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes. Sorting Shapes
 NC.1.G.2 Create composite shapes by: Making a two-dimensional composite shape using rectangles, squares, trapezoids, triangles, and half-circles naming the components of the new shape. 	Song: KitesSpace ShapesGeoboardTangrams	 Form larger shapes.pdf: Compose simple shapes to form larger shapes. Combining Shapes
Making a three-dimensional composite shape using cubes, rectangular prisms, cones, and cylinders, naming the components of the new shape.	Song: KitesSpace ShapesGeoboardTangrams	
NC.1.G.3 Partition circles and rectangles into two and four equal shares. • Describe the shares as halves and fourths, as half of and fourth of.	 Song: Fractions Books: Halves and Fourths and Thirds; Half For You and Half For Me Equal-part Fractions Label Parts of Fractions 	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. Make It Equal Fraction Friends Fraction Train Halves, Thirds, Fourths Equal Parts



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Reason with shapes and their attrib	outes continued.	
Describe the whole as two of, or four of the shares.	 Song: Fractions Books: Halves and Fourths and Thirds; Half For You and Half For Me Equal-part Fractions Label Parts of Fractions 	 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. Make It Equal Fraction Friends Fraction Train Halves, Thirds, Fourths Equal Parts
Explain that decomposing into more equal shares creates smaller shares.	 Song: Fractions Books: Halves and Fourths and Thirds; Half For You and Half For Me Equal-part Fractions Label Parts of Fractions 	 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. Make It Equal Fraction Friends Fraction Train Halves, Thirds, Fourths Equal Parts



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
SECOND GRADE		
Operations and Algebraic Thinking		
Represent and solve problems.		
NC.2.OA.1 Represent and solve addition and subtraction word problems, within 100, with unknowns in all positions, by using representations and equations with a symbol for the unknown number to represent the problem, when solving: • One-Step problems: - Add to/Take from-Start Unknown - Compare-Bigger Unknown - Compare-Smaller Unknown	 Book: Painting by Number Addition Subtraction Missing Addends and Subtrahends Subtraction Sentences Addition and Subtraction Facts 	 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. Animal Math Picture Problems Color the Chart Think About it Differently Act it Out Guess and Check
 Two-Step problems involving single digits: Add to/Take from- Change Unknown Add to/Take From- Result Unknown 	 Book: Painting by Number Addition Subtraction Missing Addends and Subtrahends Subtraction Sentences Addition and Subtraction Facts 	 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. Animal Math Picture Problems Color the Chart Think About it Differently Act it Out Guess and Check



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Add and subtract within 20.		
NC.2.OA.2 Demonstrate fluency with addition and subtraction, within 20, using mental strategies.	 Songs: Fact Families; Doubles Subtraction Patterns Addition Facts to 20 	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. Sets of flashcards: Addition—horizontal Subtraction—horizontal Addition—vertical Addition—vertical Addition and subtraction—horizontal and vertical
Work with equal groups.		
 NC.2.OA.3 Determine whether a group of objects, within 20, has an odd or even number of members by: Pairing objects, then counting them by 2s. 	 Songs: Odd Todd and Even Steven; Skip Counting Skip Count by 2 Addition Facts 	 Odd and even recognition.pdf: Determine whether a group of objects (up to 20) has an odd or even number of members. Missing Patterns Counting by 2s What's My Number?
Determining whether objects can be placed into two equal groups.	 Song: Odd Todd and Even Steven Skip Count by 2 Addition Facts Divide by 2 	 Odd and even recognition.pdf: Determine whether a group of objects (up to 20) has an odd or even number of members. Missing Patterns Counting by 2s What's My Number?
Writing an equation to express an even number as a sum of two equal addends.	 Songs: Doubles; Odd Todd and Even Steven Make and Count Groups Doubles 	 Odd and even recognition.pdf: Determine whether a group of objects (up to 20) has an odd or even number of members. Missing Patterns Counting by 2s What's My Number?
NC.2.OA.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	 Addition Multiply Using Repeated Addition Multiply Using Arrays 	



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Number and Operations in Base Te	n	
Understand place value.		
NC.2.NBT.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones. • Unitize by making a hundred from a collection of ten tens.	Song: Place ValuePlace ValuePlace Value of 3-digit Numbers	 Thinking of 100 as a bundle of ten 10s.pdf: 100 can be thought of as a bundle of ten tens—called a "hundred." The Kingdom of Popsicle Stick-Filled Purses
• Demonstrate that the numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds, with 0 tens and 0 ones.	Song: Place ValuePlace ValuePlace Value of 3-digit Numbers	 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). My Three-Digit Numbers
Compose and decompose numbers using various groupings of hundreds, tens, and ones.	Song: Place ValuePlace ValuePlace Value of 3-digit NumbersExpanded Notation	
NC.2.NBT.2 Count within 1,000; skip-count by 5s, 10s, and 100s.	 Song: Skip Counting Book: Jump Rope Rhymes Skip Count Skip Count by 10 Skip Count by 5 Number Sequences and Patterns 	 Counting within 1000.pdf: Count within 1,000; skip-count by 5s, 10s, and 100s. Chart Patterns My 199; 200; 299; 300; 399; 400; 499; 500; 599; 600; 699; and 700 Picture 900 Chart
NC.2.NBT.3 Read and write numbers, within 1,000, using base-ten numerals, number names, and expanded form.	 Sequences of 2-digit Numbers Sequences of 3-digit Numbers Number Chart Place Value 	 Read and write numbers to 1000.pdf: Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. Cube Trails Race for a Flat High/Low Number Cube Throw Lucky Five



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Understand place value continued.		
NC.2.NBT.4 Compare two three-digit numbers based on the value of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	 Greater Than, Less Than (3-digit Numbers) Place Value of 3-digit Numbers 	 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. More or Less The Hands Have It! Larger or Smaller? Comparing Number Cards <,>, = Cards Greater Than, Less Than, Equal To
Use place value understanding and	properties of operations.	
NC.2.NBT.5 Demonstrate fluency with addition and subtraction, within 100, by: • Flexibly using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	 Place Value Addition and Subtraction Relationship Commutative Properties of Addition Addition Subtraction Add without Regrouping Add with Regrouping Subtract without regrouping Subtract without Regrouping Subtract with Regrouping Subtract with Regrouping 	 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. Addition of Two-Digit Numbers Tic Tac Toe Subtraction of Two-Digit Numbers
Comparing addition and subtraction strategies, and explaining why they work.	 Addition Subtraction Add with Regrouping Concept Subtract with Regrouping Concept Place Value Number Line Addition and Subtraction Relationship Commutative Properties of Addition Act Out Addition Act Out Subtraction 	Explaining addition and subtraction strategies.pdf: Explain why addition and subtraction strategies work, using place value and the properties of operations. Cube Trails Race for a Flat High/Low Number Cube Throw Lucky Five Hundreds, Tens, Ones Chart Numbers Cards



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Use place value understanding and	properties of operations continued.	
Selecting an appropriate strategy in order to efficiently compute sums and differences.	 Place Value Addition and Subtraction Relationship Commutative Properties of Addition Addition Subtraction Add without Regrouping Add with Regrouping Subtract without regrouping Subtract with Regrouping Subtract with Regrouping 	 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. Addition of Two-Digit Numbers Tic Tac Toe Subtraction of Two-Digit Numbers
NC.2.NBT.6 Add up to three two- digit numbers using strategies based on place value and properties of operations.	Add Two-digit Numbers with RegroupingCommutative Properties of AdditionPlace Value	 Adding four 2-digit numbers.pdf: Add up to four two-digit numbers using strategies based on place value and properties of operations. Add Four Two-Digit Numbers
NC.2.NBT.7 Add and subtract, within 1,000, relating the strategy to a written method, using: • Concrete models or drawings	 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 	 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. Choose and Add Mix and Match Addition Expanded Subtraction Subtracting Repeats 999 Prediction Up and Away Regrouping Treasure Hunt Play Ball Squirrel Facts



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Use place value understanding and	properties of operations continued.	
Strategies based on place value	 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 	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. Choose and Add Mix and Match Addition Expanded Subtraction Subtracting Repeats 999 Prediction Up and Away Regrouping Treasure Hunt Play Ball Squirrel Facts
Properties of operations	 Place Value Addition and Subtraction Relationship Commutative Properties of Addition Addition Subtraction Add without Regrouping Add with Regrouping Subtract without regrouping Subtract without regrouping Subtract with Regrouping Act Out Addition Act Out Subtraction 	 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. Choose and Add Mix and Match Addition Expanded Subtraction Subtracting Repeats



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Use place value understanding and	properties of operations continued.	
Properties of operations continued		 Add and subtract within 1000.pdfcontinued 999 Prediction Up and Away Regrouping Treasure Hunt Play Ball Squirrel Facts
Relationship between addition and subtraction	 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 	 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. Choose and Add Mix and Match Addition Expanded Subtraction Subtracting Repeats 999 Prediction Up and Away Regrouping Treasure Hunt Play Ball Squirrel Facts
NC.2.NBT.8 Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	 Skip Count Place Value Number Chart Number Patterns Mental Math Games 	 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. Spin and Solve



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Measurement and Data		
Measure and estimate lengths.		
NC.2.MD.1 Measure the length of an object in standard units by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	 Song: Measuring Plants Book: Birds at My House Length Measurement Tools Standard Units of Length 	 Measurement tools.pdf: Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. Ready, Set, Measure Treasure Hunt Centimeter Ruler Inch Ruler Let's Measure in Centimeters! Let's Measure in Inches!
NC.2.MD.2 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.	LengthStandard Units of LengthMeasurement Tools	 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. Ready, Set, Measure
NC.2.MD.3 Estimate lengths in using standard units of inches, feet, yards, centimeters, and meters.	 Song: Measuring Plants Length Standard Units of Length Measurement Tools 	 Estimating lengths.pdf: Estimate lengths using units of inches, feet, centimeters, and meters. Ready, Set, Measure Treasure Hunt Let's Measure in Centimeters! Let's Measure in Inches! Measuring Perimeter
NC.2.MD.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	LengthStandard Units of Length	 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. Ready, Set, Measure Treasure Hunt



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Relate addition and subtraction to	length.	
NC.2.MD.5 Use addition and subtraction, within 100, to solve word problems involving lengths that are given in the same units, using equations with a symbol for the unknown number to represent the problem. NC.2.MD.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points and represent whole-number sums	 Book: Yangshi's Perimeter Addition Subtraction Length Standard Units of Length Number Line Length 	One- and two-step word problems within 100. pdf: Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. Animal Math Picture Problems Color the Chart Think About it Differently
and differences, within 100, on a number line.		
Build understanding of time and m	oney.	
NC.2.MD.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	 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 	 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. Matching Clocks Cartoon Captions Time to 5 Minutes



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Build understanding of time and mo	oney continued.	
NC.2.MD.8 Solve word problems involving: • Quarters, dimes, nickels, and pennies within 99¢, using ¢ symbols appropriately.	 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 	 Solve money word problems.pdf: Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. 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¢
Whole dollar amounts, using the \$ symbol appropriately.	 Songs: Money; Save Your Pennies Book: Bugs For Sale Make Change Count Bills and Coins Equivalent Sums of Money 	 Solve money word problems.pdf: Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. 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¢



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Represent and interpret data.		
 NC.2.MD.10 Organize, represent, and interpret data with up to four categories. Draw a picture graph and a bar graph with a single-unit scale to represent a data set. 	 Song: Graphing Graphing Bar Graphs Picture Graphs Use Graphs and Tables 	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. Guestions and Answers Library Book Survey Playground Survey Rock Collections Use Graphs and Tables
Solve simple put-together, take- apart, and compare problems using information presented in a picture and a bar graph.	 Song: Graphing Graphing Bar Graphs Picture Graphs Use Graphs and Tables 	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. Guestions and Answers Library Book Survey Playground Survey Rock Collections Use Graphs and Tables
Geometry		
Reason with shapes and their attrib	outes.	
NC.2.G.1 Recognize and draw triangles, quadrilaterals, pentagons, and hexagons, having specified attributes; recognize and describe attributes of rectangular prisms and cubes.	 Songs: Shapes, Shapes; Corners and Sides; Kites Book: The Shape of Things Space Shapes World Shapes Geoboard 	 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. Making Shapes Shapes Review
 NC.2.G.3 Partition circles and rectangles into two, three, or four equal shares. Describe the shares using the words halves, thirds, half of, a third of, fourths, fourth of, quarter of. 	 Song: Fractions Books: Halves and Fourths and Thirds; The Fraction Twins Fractions Label Parts of Fractions Fractions of Regions Fractions of Groups 	 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. Frenzied Fraction Fun Fabulous Fractions



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Reason with shapes and their attrib	outes continued.	
Describe the whole as two halves, three thirds, four fourths.	 Song: Fractions Books: Halves and Fourths and Thirds; The Fraction Twins Fractions Label Parts of Fractions Fractions of Regions Fractions of Groups 	 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. Frenzied Fraction Fun Fabulous Fractions
Explain that equal shares of identical wholes need not have the same shape.	 Song: Fractions Books: Halves and Fourths and Thirds; The Fraction Twins Fractions Label Parts of Fractions Fractions of Regions Fractions of Groups 	 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. Frenzied Fraction Fun Fabulous Fractions
	SCIENCE	
KINDERGARTEN		
Forces and Motion		
K.P.1 Understand the positions and	motions of objects and organisms observed in the e	nvironment.
K.P.1.1 Compare the relative position of various objects observed in the classroom and outside using position words such as: in front of, behind, between, on top of, under, above, below and beside.	 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 	
 K.P.1.2 Give examples of different ways objects and organisms move (to include falling to the ground when dropped): Straight Zigzag Round and round Back and forth Fast and slow 	 Songs: Push and Pull; Gravity Books: Mr. Mario's Neighborhood; The Big Hill; Up and Down Gravity Push and Pull Rock Cycle 	More to Explore Experiment: Air Movement Learning Together: How It Works



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Matter: Properties and Change		
K.P.2 Understand how objects are o	described based on their physical properties and how t	hey are used.
K.P.2.1 Classify objects by observable physical properties (including size, color, shape, texture, weight and flexibility).	 Songs: Savanna Size; Shapes, Shapes Size Capacity Length Weight Heavy and Light Tall and Short Big and Little Color Practice Density 	
K.P.2.2 Compare the observable physical properties of different kinds of materials (clay, wood, cloth, paper, etc) from which objects are made and how they are used.	MaterialsDensity ExperimentBuoyancy Experiment	
Earth Systems, Structures and Proc	esses	
K.E.1 Understand change and obser	vable patterns of weather that occur from day to day a	and throughout the year.
K.E.1.1 Infer that change is something that happens to many things in the environment based on observations made using one or more of their senses.	 Songs: The Five Senses; Seasons Book: That's What I Like: A Book About Seasons Science Tools Sight Hearing Touch Smell Spring Summer Fall Winter Rock Cycle 	



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.E.1 Understand change and obser	vable patterns of weather that occur from day to day	and throughout the year.
K.E.1.2 Summarize daily weather conditions noting changes that occur from day to day and throughout the year.	 Song: Seasons Book: That's What I Like: A Book About Seasons Weather Calendar/Graph Weather Weather Patterns Clouds Spring Summer Fall Winter 	 Learning Together: Weather; The Weather Around Us Weather Cards
K.E.1.3 Compare weather patterns that occur from season to season.	 Song: Seasons Book: That's What I Like: A Book About Seasons Weather Calendar/Graph Weather Weather Patterns Spring Summer Fall Winter 	
Structures and Functions of Living	Organisms	
K.L.1 Compare characteristics of an	imals that make them alike and different from other ar	nimals and nonliving things.
K.L.1.1 Compare different types of the same animal (i.e. different types of dogs, different types of cats, etc.) to determine individual differences within a particular type of animal.	 Songs: Animal Bodies; Birds; Vertebrates; Fish; Invertebrates Books: I Want to Be a Scientist Like Jane Goodall; Guess What I Am; Creepy Crawlers; Animal Bodies; Everybody Needs to Eat Food From Plants Animal Bodies Mammals Birds Reptiles Amphibians Invertebrates Insects Worms Science Investigation 	



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.L.1 Compare characteristics of an	imals that make them alike and different from other	animals and nonliving things.
 K.L.1.2 Compare characteristics of living and nonliving things in terms of their: Structure Growth Changes Movement Basic needs 	 Songs: Measuring Plants; Animal Bodies; Living and Nonliving Book: Animal Bodies Living or Nonliving Animal Behavior Animals Need Water Living Things Animal Bodies Animal Tracks Rock Cycle 	
FIRST GRADE		
Forces and Motion		
1.P.1 Understand how forces (pushe	s or pulls) affect the motion of an object.	
1.P.1.1 Explain the importance of a push or pull to changing the motion of an object.	Song: Push and PullBook: Mr. Mario's NeighborhoodPush and Pull	Learning Together: How It Works
1.P.1.2 Explain how some forces (pushes and pulls) can be used to make things move without touching them, such as magnets.	 Songs: Push and Pull; Gravity Books: Mr. Mario's Neighborhood; Up and Down Gravity Magnets Push and Pull 	
1.P.1.3 Predict the effect of a given force on the motion of an object, including balanced forces.	Song: Push and PullBook: Mr. Mario's NeighborhoodPush and PullScience Investigation	
Earth in the Universe		
1.E.1 Recognize the features and pa	tterns of the earth/moon/sun system as observed fro	om Earth.
1.E.1.1 Recognize differences in the features of the day and night sky and apparent movement of objects across the sky as observed from Earth.	Songs: The Moon; Sun BluesBooks: Moon Song; Star PicturesSunMoonConstellations	 More to Explore Experiment: The Moon Learning Together: The Sky Above Us



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.E.1 Recognize the features and par	tterns of the earth/moon/sun system as observed fro	m Earth <i>continued</i> .
1.E.1.2 Recognize patterns of observable changes in the Moon's appearance from day to day.	Song: The MoonBooks: Moon SongMoonMoon Patterns	 More to Explore Experiment: The Moon Learning Together: The Sky Above Us
Earth Systems, Structures and Proc	esses	
1.E.2 Understand the physical prope	erties of Earth materials that make them useful in diff	erent ways.
1.E.2.1 Summarize the physical properties of Earth materials, including rocks, minerals, soils and water that make them useful in different ways.	 Book: Water Is All Around Rocks Rock Cycle Soil Water Water Cycle Materials Density Experiment Buoyancy Experiment 	More to Explore Experiment: Rocks
1.E.2.2 Compare the properties of soil samples from different places relating their capacity to retain water, nourish and support the growth of certain plants.	 Song: Four Ecosystems Book: Where in the World Would You Go Today? Soil Mountains Deserts Rainforests 	Learning Together: Our Earth
Ecosystems		
1.L.1 Understand characteristics of v	various environments and behaviors of humans that e	nable plants and animals to survive.
1.L.1.1 Recognize that plants and animals need air, water, light (plants only), space, food and shelter and that these may be found in their environment.	 Songs: Water; Food From Plants; Plants Are Growing Books: Mela's Water Pot; Everybody Needs to Eat Sun Plants Water Animals Need Water Plants Need Water Plants and Animals Need Air Healthy Plants' Needs Living Things 	 More to Explore Experiment: Water for Plants Learning Together: Green and Growing



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.L.1 Understand characteristics of v	various environments and behaviors of humans that e	enable plants and animals to survive <i>continued</i> .
1.L.1.2 Give examples of how the needs of different plants and animals can be met by their environments in North Carolina or different places throughout the world.	 Song: Four Ecosystems Books: Where in the World Would You Go Today?; Winter Snoozers; The Old Maple Tree; Turtle's Pond Mountains Deserts Rainforests 	Learning Together: Our Earth
1.L.1.3 Summarize ways that humans protect their environment and/or improve conditions for the growth of the plants and animals that live there (e.g., reuse or recycle products to avoid littering).	 Songs: Conservation; Pollution Rap Pollution and Recycling Care of Water Care of Earth 	 More to Explore Experiment: Recycling Learning Together: Our Earth
Molecular Biology		
1.L.2 Summarize the needs of living	organisms for energy and growth.	
1.L.2.1 Summarize the basic needs of a variety of different plants (including air, water, nutrients, and light) for energy and growth.	 Song: Water Book: Mela's Water Pot Sun Plants Water Plants and Animals Need Air Healthy Plants' Needs 	 More to Explore Experiment: Water for Plants Learning Together: Green and Growing
1.L.2.2 Summarize the basic needs of a variety of different animals (including air, water, and food) for energy and growth.	 Songs: Water; Food From Plants Books: Mela's Water Pot; Everybody Needs to Eat Water Plants and Animals Need Air Animals Need Water 	
SECOND GRADE		
Forces and Motion		
2.P.1 Understand the relationship be	etween sound and vibrating objects.	
2.P.1.1 Illustrate how sound is produced by vibrating objects and columns of air.	Song: SoundBook: What Sounds SaySound Waves	More to Explore Experiment: Sound



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
2.P.1 Understand the relationship be	etween sound and vibrating objects continued.	
2.P.1.2 Summarize the relationship between sound and objects of the body that vibrate – eardrum and vocal cords.	Song: SoundBook: What Sounds SaySound Waves	More to Explore Experiment: Sound
Matter: Properties and Change		
2.P.2 Understand properties of solid	ds and liquids and the changes they undergo.	
2.P.2.1 Give examples of matter that change from a solid to a liquid and from a liquid to a solid by heating and cooling.	 Songs: Precipitation; Solid or Liquid Books: Whatever the Weather; Pancakes Matter Solid and Liquid Changes in Matter Science Investigation States of Water Movement of Heat 	
2.P.2.2 Compare the amount (volume and weight) of water in a container before and after freezing.	WeightCapacityScience Investigation	
2.P.2.3 Compare what happens to water left in an open container over time as to water left in a closed container.	Song: The Scientific MethodScience Investigation	More to Explore Experiment: Evaporation
Earth Systems, Structures and Proc	esses	
2.E.1 Understand patterns of weath	er and factors that affect weather.	
2.E.1.1 Summarize how energy from the sun serves as a source of light that warms the land, air and water.	Song: Sun BluesSun	
 2.E.1.2 Summarize weather conditions using qualitative and quantitative measures to describe: Temperature Wind direction Wind speed Precipitation 	 Song: Precipitation Book: Whatever the Weather Weather Calendar/Graph Weather Weather Patterns Weather Tools 	 Learning Together: Weather; The Weather Around Us Weather Cards



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
2.E.1 Understand patterns of weath	er and factors that affect weather <i>continued</i> .	
2.E.1.3 Compare weather patterns that occur over time and relate observable patterns to time of day and time of year.	 Song: Seasons Book: That's What I Like: A Book About Seasons Weather Calendar/Graph Weather Weather Patterns Spring Summer Fall Winter 	 Learning Together: Weather; The Weather Around Us Weather Cards
2.E.1.4 Recognize the tools that scientists use for observing, recording, and predicting weather changes from day to day and during the seasons.	 Weather Weather Tools Science Tools Science Investigation Measurement Tools 	
Structures and Functions of Living	Organisms	
2.L.1 Understand animal life cycles.		
 2.L.1.1 Summarize the life cycle of animals: Birth Developing into an adult Reproducing Aging and death 	 Books: Watch the Woolly Worm Animal Life Cycle and Growth Amphibians Mammals Birds Observe a Simple System 	 Butterfly Life Cycle.pdf: Create the different stages of a butterfly's life cycle. Bird Life Cycle.pdf: Create the different stages of a bird's life cycle. Frog Life Cycle.pdf: Draw and color a picture for each stage in the frog life cycle. Amphibians.pdf: Cut and paste pictures to show how the egg changes into a frog.
2.L.1.2 Compare life cycles of different animals such as, but not limited to, mealworms, ladybugs, crickets, guppies or frogs.	 Books: Watch the Woolly Worm Animal Life Cycle and Growth Amphibians Mammals Birds Observe a Simple System 	 Butterfly Life Cycle.pdf: Create the different stages of a butterfly's life cycle. Bird Life Cycle.pdf: Create the different stages of a bird's life cycle. Frog Life Cycle.pdf: Draw and color a picture for each stage in the frog life cycle. Amphibians.pdf: Cut and paste pictures to show how the egg changes into a frog.



NORTH CAROLINA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Evolution and Genetics		
2.L.2 Remember that organisms dif	fer from or are similar to their parents based on the	e characteristics of the organism.
2.L.2.1 Identify ways in which many plants and animals closely resemble their parents in observed appearance and ways they are different.	Books: George and Jack; A Seed GrowsBuild Knowledge: Mine	More to Explore Experiment: Traits
2.L.2.2 Recognize that there is variation among individuals that are related.	Books: George and Jack; José Three; MineBuild Knowledge: Mine	More to Explore Experiment: Traits

WATERFORD Books and Related Activities



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, <u>Waterford.org</u> is continually developing resources with the latest research findings. Please note that this correlation is accurate as of the date on the cover.

WATERFORD Family Engagement Resources



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 III; 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

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)

WATERFORD MENTOR

<u>Waterford Mentor</u> 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.

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