

CURRICULUM *Correlation*

*Waterford Math
& Science*

100%

*Tennessee State
Math Standards*

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OVERVIEW



This document provides a detailed correlation of WATERFORD MATH & SCIENCE to TENNESSEE STATE MATH STANDARDS.

WATERFORD CURRICULUM DETAILS

Waterford Curriculum provides technology-driven curriculum for early learners.

Waterford Early Learning is a technology-based early reading, math, and science program with integrated assessments and teacher resources.

Waterford Reading is a comprehensive, adaptive reading curriculum designed to help each student become a fluent reader. Waterford Reading incorporates five essential reading strands: phonological awareness, phonics, comprehension and vocabulary, language concepts, and fluency.



Following an extensive review, Waterford Reading received CASE endorsement in 2016. The Council of Administrators of Special Education (CASE) is an international educational organization affiliated with the Council for Exceptional Children.

Waterford Math & Science provides young learners comprehensive instruction in the major areas of early math: numbers and operation, algebraic reasoning, geometry and measurement, and data analysis. The integrated science curriculum emphasizes exploration and the scientific method while teaching earth, life, and physical science.

EVIDENCE-BASED CURRICULUM

Waterford curriculum has been formally [evaluated in dozens of studies](#). In each study, Waterford classrooms outperform comparison-group classes in most, if not all, of the examined measures. In

particular, Waterford stands out for providing significant learning gains for at-risk students and English Language Learners.

STUDENT-CENTERED LEARNING

Waterford's student-centered, personalized learning software adapts automatically to give each student a unique learning experience tailored to his or her own skill level and pace.

Placement Assessment: Students begin their experience with a Placement Assessment. Based on rigorous research, the Placement Assessment evaluates a student's abilities and determines an appropriate starting point.

Adaptive, Individualized Learning: Waterford provides a mastery-based curriculum. As such, Waterford automatically provides instruction, remediation, and review to support students toward mastery of learning objectives based on student performance in ongoing assessment.

Data-Informed Instruction: Administrators and teachers can also use the program's rich reporting features to monitor progress in real-time, to identify areas of difficulty, and to utilize additional intervention tools in varied instructional settings.

TEACHER RESOURCES

With resources available in the Waterford Manager, thousands of online activities are available for teachers to use with an interactive whiteboard or projector. This flexible tool for blended learning increases teachers' instructional efficacy. [Teachers can easily deliver engaging lessons](#) aligned to their own pacing guide, core curriculum, or state standards.

For preK teachers looking for daily lesson plans, a complete curriculum comprised of seven thematic units is available for download in the Waterford Manager.

CORRELATION DESCRIPTION

This document correlates state standards to Waterford resources. Waterford resources include

- **Digital Resources:** Engaging, evidence-based online activities that are presented to students during their individualized instruction. These activities are also available for collaborative instruction in Classroom Advantage.
- **Print, PDF, and Internet Resources:** Teacher guides, Waterford Manager teacher PDFs, hundreds of student books and songs, family engagement activities, newsletters and more complement Waterford's extensive digital resources.

CONTINUAL DEVELOPMENT

As a nonprofit research institute, Waterford is continually developing their programs with the latest research findings. Please note that this correlation is accurate as of the date on the cover.



SUPPORT

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



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES *
KINDERGARTEN		
COUNTING AND CARDINALITY		
A. Know number names and the counting sequence.		
K.CC.A.1 Count to 100 by ones, fives, and tens. Count backward from 10.	<ul style="list-style-type: none"> • Number Songs • Counting Songs • Math Books (See titles at end of document.) • Songs: Skip Counting; Hotel 100; Counting Backward • Number Instruction • Number Counting • Order Numbers • Skip Count by 10 • Dot to Dot • Counting Puzzle • Count Down • Classroom Advantage Only • Skip Count by 5 	<ul style="list-style-type: none"> • Counting Forward.pdf: Count forward beginning from a given number within a known sequence. <ul style="list-style-type: none"> - Let's Count On - Toss and Count - Count on by 1 - Math Newsletter: Count On & Number Cards
K.CC.A.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	<ul style="list-style-type: none"> • Counting Songs • Count On 	<ul style="list-style-type: none"> • Counting Forward.pdf: Count forward beginning from a given number within a known sequence. <ul style="list-style-type: none"> - Let's Count On - Toss and Count - Count on by 1 - Math Newsletter: Count On & Number Cards
K.CC.A.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20.	<ul style="list-style-type: none"> • Number Instruction • Number Recognition and Sense • Number Counting • Make and Count Groups 	<ul style="list-style-type: none"> • Writing from 0 to 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: 1-20 - Numbers 1-5 - Add groups - Count on by 1 - Number Writing Practice: 0-20

* Waterford Teacher Resources are available for download in the Waterford Manager (<https://manager.waterford.org/>).



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
B. Count to tell the number of objects.		
<p>K.CC.B.4 Understand the relationship between numbers and quantities; connect counting to cardinality.</p>	<ul style="list-style-type: none"> • Math Books • Number Songs • Counting Songs (See titles at end of document.) • Number Counting • Number Instruction • Number Recognition and Sense • Picture Puzzle • Shape Puzzle • Moving Target • Make and Count Groups • Bug Fun • Match Numbers • Number Review 	
<p>a. When counting objects, say the number names in the standard order, using one-to-one correspondence.</p>	<ul style="list-style-type: none"> • Counting Songs • Number Counting • Counting Puzzle • One-to-one Correspondence 	
<p>b. Recognize 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.</p>	<ul style="list-style-type: none"> • Counting Songs • Number Counting • Counting Puzzle • 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
<p>c. Recognize that each successive number name refers to a quantity that is one greater.</p>	<ul style="list-style-type: none"> • Counting Songs • Make and Count Groups • One-to-one Correspondence • Number Counting • Count On • Counting Puzzle 	<ul style="list-style-type: none"> • Object Counting Succession.pdf: Understand that each successive number name refers to a quantity that is one larger. <ul style="list-style-type: none"> - One by One



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
B. Count to tell the number of objects <i>continued</i>.		
<p>K.CC.B.5 Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, a circle, or as many as 10 things in a scattered configuration. Given a number from 1-20, count out that many objects.</p>	<ul style="list-style-type: none"> • Counting Songs • Number Songs • Math Books (See titles at end of document.) • Make and Count Groups • Number Counting • Order Numbers • Number Instruction • Number Recognition and Sense • Numbers Review • Match Numbers • Bug Fun • One-to-one Correspondence 	<ul style="list-style-type: none"> • How Many?.pdf: Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects. <ul style="list-style-type: none"> - Hoop Addition
C. Compare Numbers.		
<p>K.CC.C.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.</p>	<ul style="list-style-type: none"> • Book: For the Birds • Make and Count Groups • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make a Math Story: More Than, Fewer Than • Number Recognition and Sense 	<ul style="list-style-type: none"> • Comparing 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>K.CC.C.7 Compare two given numbers up to 10, when written as numerals, using the terms greater than, less than, or equal to.</p>	<ul style="list-style-type: none"> • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make a Math Story: More Than, Fewer Than • Number Recognition and Sense 	<ul style="list-style-type: none"> • Comparing 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



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
OPERATIONS AND ALGEBRAIC THINKING		
A. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.		
<p>K.OA.A.1 Represent addition and subtraction with objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, expressions, or equations.</p>	<ul style="list-style-type: none"> • Songs: Addition; Pirates Can Add; On the Bayou; Bakery Subtraction; Circus Subtraction; Subtract Those Cars • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Dominoes • Add With Manipulatives • Add With Beads • Minuends • Act Out Addition • Act Out Subtraction • Mental Math Games 	<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"> - Stories: Addition; Act It Out; Edible; Manipulative - One, Two, Three, Show - Circus Subtraction and Partner Subtraction - Farmer’s Market - Green and Speckled Frogs - Cars and Trucks and Yummy Subtraction - Act Out Addition/Act Out Subtraction - Addition & Subtraction Newsletters - Subtraction Flashcards
<p>K.OA.A.2 Add and subtract within 10 to solve contextual problems using objects or drawings to represent the problem.</p>	<ul style="list-style-type: none"> • Songs: Addition; Pirates Can Add; On the Bayou; Bakery Subtraction; Circus Subtraction; Subtract Those Cars • Book: Five Delicious Muffins • Story Problem Strategies • Add Groups • Subtract Groups • Dominoes • Add With Manipulatives • Add With Beads • Minuends • Act Out Addition • Act Out Subtraction • Mental Math Games 	<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"> - Stories: Addition; Act It Out; Edible; Manipulative - One, Two, Three, Show - Circus Subtraction and Partner Subtraction - Farmer’s Market - Green and Speckled Frogs - Cars and Trucks and Yummy Subtraction - Act Out Addition/Act Out Subtraction - Addition & Subtraction Newsletters - Subtraction Flashcards
<p>K.OA.A.3 Decompose numbers less than or equal to 10 into addend pairs in more than one way (e.g., $5 = 2 + 3$ and $5 = 4 + 1$) by using objects or drawings. Record each decomposition using a drawing or writing an equation.</p>	<ul style="list-style-type: none"> • Make and Count Groups • Subtract Groups • Act Out Subtraction 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from <i>continued</i> .		
K.OA.A.4 Find the number that makes 10, when added to any given number, from 1 to 9 using objects or drawings. Record the answer using a drawing or writing an equation.	<ul style="list-style-type: none"> • Make and Count Groups • Add Groups • Sums • Act Out Addition 	
K.OA.A.5 Fluently add and subtract within 10 using mental strategies.	<ul style="list-style-type: none"> • Make and Count Groups • Add Groups • Subtract Groups • Sums • Act Out Addition • Act Out Subtraction • Mental Math Games 	
NUMBER AND OPERATIONS IN BASE TEN		
A. Work with numbers 11-19 to gain foundations for place value.		
K.NBT.A.1 Compose and decompose numbers from 11 to 19 into ten ones and some more ones by using objects or drawings. Record the composition or decomposition using a drawing or by writing an equation.	<ul style="list-style-type: none"> • Place Value (10-19) 	<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 (1 & 2)
MEASUREMENT AND DATA		
A. Describe and compare measurable attributes.		
K.MD.A.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	<ul style="list-style-type: none"> • Song: Measuring Plants 	<ul style="list-style-type: none"> • Measurable attributes.pdf: Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. <ul style="list-style-type: none"> - Filling Table - Order It Up - Straw Rulers - Measuring Walk - Heavy or Light - Make a Balance - Measurable Attributes



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Describe and compare measurable attributes <i>continued</i>.		
<p>K.MD.A.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. For example, directly compare the heights of two children and describe one child as taller/shorter.</p>	<ul style="list-style-type: none"> • Song: Measuring Plants; Savanna Size; Large, Larger, Largest • Length • Capacity • Big and Little • Tall and Short • Heavy and Light • Size 	<ul style="list-style-type: none"> • Measurable Attributes.pdf: Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. <ul style="list-style-type: none"> - Filling Table - Order It Up - Straw Rulers - Measuring Walk - Heavy or Light? - Make a Balance - Measurable Attributes
B. Work with money.		
<p>K.MD.B.3 Identify the penny, nickel, dime, and quarter and recognize the value of each.</p>	<ul style="list-style-type: none"> • Song: Save Your Pennies • Coin Identification 	
C. Classify objects and count the number of objects in each category.		
<p>K.MD.C.4 Sort a collection of objects into a given category, with 10 or less in each category. Compare the categories by group size.</p>	<ul style="list-style-type: none"> • Songs: Same and Different; All Sorts of Laundry • Book: Buttons, Buttons • Match • Matching • Sort • Logic Game 	
GEOMETRY		
A. Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).		
<p>K.G.A.1 Describe objects in the environment using names of shapes. Describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, between, and next to.</p>	<ul style="list-style-type: none"> • Song: Shapes, Shapes, Shapes; Kites • Books: The Shape of Things; Imagination Shapes • Simple Shapes • World Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Diamond 	<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 - Shapes Flashcard



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres) <i>continued</i>.		
K.G.A.2 Correctly name shapes regardless of their orientations or overall size.	<ul style="list-style-type: none"> • Songs: Shapes, Shapes, Shapes; Corners and Sides; Congruent Parts; Kites • Books: The Shape of Things; Imagination Shapes • Simple Shapes • Solid Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Diamond • Congruence • World 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 - Shapes Flashcard
K.G.A.3 Identify shapes as two-dimensional or three-dimensional.	<ul style="list-style-type: none"> • Songs: Shapes, Shapes, Shapes; Corners and Sides; Congruent Parts; Kites • Books: The Shape of Things; Imagination Shapes • Simple Shapes • Solid Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Diamond • Congruence • World Shapes 	
B. Analyze, compare, create, and compose shapes.		
K.G.B.4 Describe similarities and differences between two- and three-dimensional shapes, in different sizes and orientations.	<ul style="list-style-type: none"> • Songs: Shapes, Shapes, Shapes; Corners and Sides; Congruent Parts; Kites • Books: The Shape of Things; Imagination Shapes • Simple Shapes • Solid Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Diamond • Congruence • World Shapes 	
K.G.B.5 Model shapes in the world by building and drawing shapes.	<ul style="list-style-type: none"> • Geoboard 	
K.G.B.6 Compose larger shapes using simple shapes and identify smaller shapes within a larger shape.	<ul style="list-style-type: none"> • Geoboard • Tangrams 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
GRADE 1		
OPERATIONS AND ALGEBRAIC THINKING		
A. Represent and solve problems involving addition and subtraction.		
1.OA.A.1 Add and subtract within 20 to solve contextual problems, with unknowns in all positions, involving situations of add to, take from, put together/take apart, and compare. Use objects, drawings, and equations with a symbol for the unknown number to represent the problem. (See Table 1 - Addition and Subtraction Situations)	<ul style="list-style-type: none"> • Story Problem Strategies • Missing Addends • Missing Minuends and Subtrahends • Mental Math Games • Addition and Subtraction Relationship • Commutative Property of Addition 	<ul style="list-style-type: none"> • Word Problems Using Addition and 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. <ul style="list-style-type: none"> - Guess and Check - Model the Story
1.OA.A.2 Add three whole numbers whose sum is within 20 to solve contextual problems using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	<ul style="list-style-type: none"> • Story Problem Strategies: Add 3 One-digit Numbers 	<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> - Draw a Picture
B. Understand and apply properties of operations and the relationship between addition and subtraction.		
1.OA.B.3 Apply properties of operations (additive identity, commutative, and associative) as strategies to add and subtract. (Students need not use formal terms for these properties.)	<ul style="list-style-type: none"> • Subtraction Patterns • Commutative Property of Addition • Kingdom of Counting • Mental Math Games 	
1.OA.B.4 Understand subtraction as an unknown-addend problem. For example, to solve $10 - 8 = \quad$, a student can use $8 + \quad = 10$.	<ul style="list-style-type: none"> • Missing Addends • Subtraction Patterns • Kingdom of Counting • Mental Math Games 	<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.



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Add and subtract within 20.		
<p>1.OA.C.5 Add and subtract within 20 using strategies such as counting on, counting back, making 10, using fact families and related known facts, and composing/ decomposing numbers with an emphasis on making ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ or adding $6 + 7$ by creating the known equivalent $6 + 4 + 3 = 10 + 3 = 13$).</p>	<ul style="list-style-type: none"> • Song: Counting On • Book: Circus 20 • Jump Rope Rhymes • Skip Count by 2 • Count On 	<ul style="list-style-type: none"> • Relate counting to addition and subtraction.pdf: Relate counting to addition and subtraction. <ul style="list-style-type: none"> - Skip Counting Chant - Jump Rope Counting - Related Facts - Count by 10s - Count by 5s - Count by 2s
<p>1.OA.C.6 Fluently add and subtract within 20 using mental strategies. By the end of 1st grade, know from memory all sums up to 10.</p>	<ul style="list-style-type: none"> • Song: Fact Families • Book: 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 • Missing Addends, Sums to 10 • Mental Math Games • Speed Games 	<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 - Add _ and 1-5 - Add _ and 6-10 - Order Property of Addition - Add Doubles +1 to 11 - Add Doubles to 20 - Add Doubles +1 to 21) - Make 10 - Subtract _ from - Subtract - Subtraction Patterns - Fact Families to 10 - Fact Families to 20 - Add and Subtract Doubles to 10 - Add and Subtract Doubles to 20



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Add and subtract within 20 <i>continued</i>.		
<p>1.OA.C.6 Fluently add and subtract within 20 using mental strategies. By the end of 1st grade, know from memory all sums up to 10 <i>continued</i>.</p>		<ul style="list-style-type: none"> • Add and subtract within 20.pdf: Add and subtract within 20 <i>continued</i>. - Addition—horizontal - Subtraction—horizontal - Addition—vertical - Subtraction—horizontal
D. Work with addition and subtraction equations.		
<p>1.OA.D.7 Understand the meaning of the equal sign (e.g., $6 = 6$; $5 + 2 = 4 + 3$; $7 = 8 - 1$). Determine if equations involving addition and subtraction are true or false.</p>	<ul style="list-style-type: none"> • Song: Finding the Difference • Book: Circus 20 • Addition Sentences • Subtraction Sentences 	
<p>1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation, with the unknown in any position (e.g., $8 + ? = 11$, $5 = ? - 3$, $6 + 6 = ?$).</p>	<ul style="list-style-type: none"> • Missing Addends • Missing Minuends and Subtrahends • Mental Math Games 	
NUMBER AND OPERATIONS IN BASE TEN		
A. Extend the counting sequence.		
<p>1.NBT.A.1 Count to 120, starting at any number. Read and write numerals to 120 and represent a number of objects with a written numeral. Count backward from 20.</p>	<ul style="list-style-type: none"> • Song: Counting On • Book: Hooray, Hooray for the One Hundredth Day! • Count On • Number Recognition and Sense • 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. - Mystery Numbers - I Can Write Numbers to 99 - Numbers 20-29 - Numbers 30-39 - Numbers 40-49 - Numbers 50-59 - Numbers 60-69 - Counting to 89 - I Can Count to 50 - I Can Count to 100 - I Can Count to 99 - I Can Count to 120



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
B. Understand place value.		
<p>1.NBT.B.2 Know that the digits of a two-digit number represent groups of tens and ones (e.g., 39 can be represented as 39 ones, 2 tens and 19 ones, or 3 tens and 9 ones).</p>	<ul style="list-style-type: none"> • Song: Place Value • Place B\Value of 2-digit Numbers • Expanded Notation • Add with Manipulatives • Flower Story Problems • Number Recognition and Sense 	<ul style="list-style-type: none"> • Tens as a bundle of ten 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
<p>1.NBT.B.3 Compare two two-digit numbers based on the meanings of the digits in each place and use the symbols $>$, $=$, and $<$ to show the relationship.</p>	<ul style="list-style-type: none"> • Greater Than, Less Than (2-digit Numbers) • You Be the Teacher: Greater Than, Less Than 	
C. Use place value understanding and properties of operations to add and subtract.		
<p>1.NBT.C.4 Add a two-digit number to a one-digit number and a two-digit number to a multiple of ten (within 100). Use concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to explain the reasoning used.</p>	<ul style="list-style-type: none"> • Addition • Add Tens • Kingdom of Counting • Doubles • Doubles Plus 1 • Add with Manipulatives • Add Vertical Squares • Add with Beads • Flower Story Problems • Story Problem Strategies • Mental Math Games • Speed Games • Add 2-digit and 1-digit Numbers with Regrouping • Add 2-digit Numbers without Regrouping • Add 3-digit Numbers without Regrouping • Add 2-digit and 1-digit Numbers with Regrouping • Add 3 Two-digit Numbers with Regrouping • Add 2-digit Numbers with Regrouping • Add with Regrouping Concept • You Be the Teacher: 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 Kingdome 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 - 1 set of flashcards



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Use place value understanding and properties of operations to add and subtract <i>continued</i> .		
<p>1.NBT.C.5 Mentally find 10 more or 10 less than a given two-digit number without having to count by ones and explain the reasoning used.</p>	<ul style="list-style-type: none"> • Add 10 and 6-10 • Subtract 10 from 10-20 • Skip Counting • Kingdom of Counting • Flower Story Problems 	<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
<p>1.NBT.C.6 Subtract multiples of 10 from multiples of 10 in the range 10-90 using concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.</p>	<ul style="list-style-type: none"> • Subtraction • Subtraction Sentences • Subtract Tens • Subtraction Patterns • Subtract 10 from 10-20 • Use Manipulatives • Flower Story Problems: Subtraction Patterns • Story Problem Strategies: Subtract Ten • Problem Solving Strategies: Look for a Pattern • Mental Math Games • Story Problem Strategies • You Be the Teacher 	<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
MEASUREMENT AND DATA		
A. Measure lengths indirectly and by iterating length units.		
<p>1.MD.A.1 Order three objects by length. Compare the lengths of two objects indirectly by using a third object. For example, to compare indirectly the heights of Bill and Susan: if Bill is taller than mother and mother is taller than Susan, then Bill is taller than Susan.</p>	<ul style="list-style-type: none"> • Nonstandard Units of Length • Story Problem Strategies: Nonstandard Units of Length 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Measure lengths indirectly and by iterating length units <i>continued</i>.		
<p>1.MD.A.2 Measure the length of an object using non-standard units and express this length as a whole number of units.</p>	<ul style="list-style-type: none"> • Nonstandard Units of Length • Book: Painting by Number • Story Problem Strategies: Nonstandard Units of Length • Problem Solving • Problem Solving Strategies: Make and Use a Picture 	<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
B. Work with time and money.		
<p>1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.</p>	<ul style="list-style-type: none"> • Books: Mr. Romano’s Secret: A Time Story; How Long is a Minute? • Tell Time to the Hour • Tell Time to the Half-Hour • Compare Minutes to Hours • Story Problem Strategies: Time • Clock Hands 	<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. <ul style="list-style-type: none"> - 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
<p>1.MD.B.4 Count the value of a set of like coins less than one dollar using the ¢ symbol only.</p>	<ul style="list-style-type: none"> • Song: Money • Book: Bugs For Sale • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Equivalent Sums of Money • Quarters 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Represent and interpret data.		
<p>1.MD.C.5 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.</p>	<ul style="list-style-type: none"> • Song: Tallying • Book: One More Cat • Tally Marks • Problem Solving Strategy: Make a Graph, Make a Table • Graphs • Make a Table • Story Problem Strategies: Graphs 	<ul style="list-style-type: none"> • Data Categorization.pdf: Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another. <ul style="list-style-type: none"> - 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?
GEOMETRY		
A. Reason about shapes and their attributes.		
<p>1.G.A.1 Distinguish between attributes that define a shape (e.g., number of sides and vertices) versus attributes that do not define the shape (e.g., color, orientation, overall size); build and draw two-dimensional shapes to possess defining attributes.</p>	<ul style="list-style-type: none"> • Song: Corners and Sides • Geoboard 	
<p>1.G.A.2 Create a composite shape and use the composite shape to make new shapes by using two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, rectangular prisms, cones, and cylinders).</p>	<ul style="list-style-type: none"> • Space Shapes • Geoboard • Tangrams 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Reason about shapes and their attributes <i>continued</i>.		
<p>1.G.A.3 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 partitioning into more equal shares creates smaller shares.</p>	<ul style="list-style-type: none"> • Book: halves and Fourths and Thirds • Equal-part Fractions • Label Parts of Fractions 	
<p>GRADE 2</p> <p>OPERATIONS AND ALGEBRAIC THINKING</p>		
A. Represent and solve problems involving addition and subtraction.		
<p>2.OA.A.1 Add and subtract within 100 to solve one- and two-step contextual problems, with unknowns in all positions, involving situations of add to, take from, put together/take apart, and compare. Use objects, drawings, and equations with a symbol for the unknown number to represent the problem.</p>	<ul style="list-style-type: none"> • Book: Painting by Number • Addition • Subtraction • Problem Solving Strategies: Act Out Addition; Act Out Subtraction • Story Problem Strategies 	<ul style="list-style-type: none"> • Solving 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 - Act it Out - Guess and Check
B. Add and subtract within 30.		
<p>2.OA.B.2 Fluently add and subtract within 30 using mental strategies. By the end of 2nd grade, know from memory all sums of two one-digit numbers and related subtraction facts.</p>	<ul style="list-style-type: none"> • Mental Math Games • Speed Games • 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"> - Addition—horizontal - Subtraction—horizontal - Addition—vertical - Subtraction—vertical - Addition and subtraction—horizontal and vertical



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Work with equal groups of objects to gain foundations for multiplication.		
<p>2.OA.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members by pairing objects or counting them by 2s. Write an equation to express an even number as a sum of two equal addends.</p>	<ul style="list-style-type: none"> • Song: 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 2's - What's My Number?
<p>2.OA.C.4 Use repeated 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.</p>	<ul style="list-style-type: none"> • Addition • Multiply Using Repeated Addition • Multiply Using Arrays 	
NUMBER AND OPERATIONS IN BASE TEN		
A. Understand place value.		
<p>2.NBT.A.1 Know that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 can be represented in multiple ways as 7 hundreds, 0 tens, and 6 ones; 706 ones; or 70 tens and 6 ones).</p>	<ul style="list-style-type: none"> • Song: 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 • Grouping hundreds.pdf: The numbers 100, 200, 300, 400, 500, <ul style="list-style-type: none"> - 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



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Understand place value <i>continued</i>.		
<p>2.NBT.A.2 Count within 1000. Skip-count within 1000 by 5s, 10s, and 100s, starting from any number in its skip counting sequence.</p>	<ul style="list-style-type: none"> • Song: Skip Counting • Skip Count • Skip Count by 10 • Skip Count by 5 • Story Problem Strategies: Skip Count • 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 Picture - My 200 Picture - My 299 Picture - My 300 Picture - My 399 Picture - My 400 Picture - My 499 Picture - My 500 Picture - My 599 Picture - My 600 Picture - My 699 Picture - My 700 Picture - 900 Chart
<p>2.NBT.A.3 Read and write numbers to 1000 using standard form, word form, and expanded form.</p>	<ul style="list-style-type: none"> • Problem Solving Strategies (Make a List) • Story Problem Strategies: Sequences; Place Value • Sequences of 2-digit Numbers • Sequences of 3-digit Numbers • Place Value of 3-digit Numbers 	
<p>2.NBT.A.4 Compare two three-digit numbers based on the meanings of the digits in each place and use the symbols $>$, $=$, and $<$ to show the relationship.</p>	<ul style="list-style-type: none"> • Story Problem Strategies: Greater Than, Less Than 3-digit • Greater Than, Less Than (3-digit Numbers) • Place Value of 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 - Number Cards - $<$, $>$, $=$ Cards - Greater Than, Less Than, Equal To



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
B. Use place value understanding and properties of operations to add and subtract.		
<p>2.NBT.B.5 Fluently add and subtract within 100 using properties of operations, strategies based on place value, and/or the relationship between addition and subtraction.</p>	<ul style="list-style-type: none"> • Mental Math Games • Story Problem Strategies: Add with Regrouping; Subtract with Regrouping • Add without Regrouping • Add with Regrouping • Subtract without regrouping • Subtract with Regrouping • Speed Games 	<ul style="list-style-type: none"> • Adding or subtracting 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 Flashcards - Addition of Two-Digit Numbers - Tic Tac Toe - Subtraction of Two-Digit Numbers
<p>2.NBT.B.6 Add up to four two-digit numbers using properties of operations and strategies based on place value.</p>	<ul style="list-style-type: none"> • Add Two-digit Numbers 	<ul style="list-style-type: none"> • Adding four 2-digit numbers.pdf: Add up to four two-digit numbers using strategies based on place value and properties of operations. <ul style="list-style-type: none"> - Add Four Two-Digit Numbers
<p>2.NBT.B.7 Add and subtract within 1000 using concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to explain the reasoning used.</p>	<ul style="list-style-type: none"> • Story Problem Strategies: Add 3 Two-digit with Regrouping; Add 3-digit with Regrouping; Subtract 2-digit with Regrouping; Subtract 3-digit with Regrouping • Subtract 2-digit Numbers with Regrouping • Subtract 3-digit Numbers with Regrouping • Subtract with Regrouping Concept • Add 3 Two-digit Numbers with Regrouping • Add 3-digit Numbers with Regrouping • Place Value 	<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 - Number Cards



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
B. Use place value understanding and properties of operations to add and subtract <i>continued</i>.		
2.NBT.B.8 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"> • Mental Math Games • Speed Games • Skip Count • Place Value • Number Chart • Number Patterns 	<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 (with spinner and numbers cards)
2.NBT.B.9 Explain why addition and subtraction strategies work using properties of operations and place value. (Explanations may include words, drawing, or objects.)	<ul style="list-style-type: none"> • Addition • Subtraction • Add with Regrouping Concept • Subtract with Regrouping Concept • Place Value • Number Line • You Be the Teacher • Commutative Properties of Addition • Act Out Addition • Act Out Subtraction 	<ul style="list-style-type: none"> • Explaining addition and subtraction strategies.pdf: Explain why addition and subtraction strategies work, using place value and the properties of operations. <ul style="list-style-type: none"> - Cube Trails - Race for a Flat - High/Low Number Cube Throw - Lucky Five - Hundreds, Tens, Ones Chart - Numbers Cards
MEASUREMENT AND DATA		
A. Measure and estimate lengths in standard units.		
2.MD.A.1 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"> • Song: Measuring Plants • Measurement Tools • 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!
2.MD.A.2 Measure the length of an object using two different units of measure and describe how the two measurements relate to the size of the unit chosen.	<ul style="list-style-type: none"> • Songs: Measuring Plants • Measurement Tools • Standard Units of Length 	<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



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
A. Measure and estimate lengths in standard units <i>continued</i>.		
2.MD.A.3 Estimate lengths using units of inches, feet, yards, centimeters, and meters.	<ul style="list-style-type: none"> • Song: Measuring Plants • Standard Units of Length 	<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
2.MD.A.4 Measure to determine how much longer one object is than another and express the difference in terms of a standard unit of length.	<ul style="list-style-type: none"> • Book: Birds at My House • Standard Units of Length • Measurement Tools 	
B. Relate addition and subtraction to length.		
2.MD.B.5 Add and subtract within 100 to solve contextual problems involving lengths that are given in the same units by using drawings and equations with a symbol for the unknown to represent the problem.	<ul style="list-style-type: none"> • Book: Yangshi's Perimeter • Standard Units of Length • Addition • Addition Sentences • Add Tens • Add with Manipulatives • Subtraction • Subtraction Sentences • Subtraction Patterns • Mental Math Games 	
2.MD.B.6 Represent whole numbers as lengths from 0 on a number line and know that the points corresponding to the numbers on the number line are equally spaced. Use a number line to represent whole number sums and differences of lengths within 100.	<ul style="list-style-type: none"> • Number Line 	



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
C. Work with time and money.		
<p>2.MD.C.7 Tell and write time in quarter hours and to the nearest five minutes (in a.m. and p.m.) using analog and digital clocks.</p>	<ul style="list-style-type: none"> • Songs: Telling Time; Clock Hands • Tell Time • 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 • You Be the Teacher: Tell Time 	
<p>2.MD.C.8 Solve contextual problems involving dollar bills, quarters, dimes, nickels, and pennies using ¢ and \$ symbols appropriately.</p>	<ul style="list-style-type: none"> • Songs: Money; Save Your Pennies • Coin Identification • Coin Value • Quarters • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Make Change • Count Coins • Count Bills and Coins • Equivalent Sums of Money • Story Problem Strategies: Make Change, Count Coins, Count Bills and Coins • You Be the Teacher: Make Change 	<ul style="list-style-type: none"> • 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¢
D. Represent and interpret data.		
<p>2.MD.D.9 Generate measurement data by measuring lengths of several objects to the nearest whole unit. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.</p>		<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!



TENNESSEE STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
D. Represent and interpret data <i>continued</i>.		
<p>2.MD.D.10 Draw a pictograph and a bar graph (with intervals of one) to represent a data set with up to four categories. Solve addition and subtraction problems related to the data in a graph.</p>	<ul style="list-style-type: none"> • Song: Graphing • Book: The Boonville Nine • Graphing • Picture Graphs • Use Graphs and Tables • Story Problem Strategies: Picture Graphs, Bar Graphs 	
GEOMETRY		
A. Reason about shapes and their attributes.		
<p>2.G.A.1 Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. Draw two-dimensional shapes having specified attributes (as determined directly or visually, not by measuring), such as a given number of angles or a given number of sides of equal length.</p>	<ul style="list-style-type: none"> • Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites • Book: The Shape of Things • Space Shapes • World Shapes • Story Problem Strategies: Space Shapes • Geoboard 	
<p>2.G.A.2 Partition a rectangle into rows and columns of same-sized squares and find the total number of squares.</p>	<ul style="list-style-type: none"> • Song: Fractions • Story Problem Strategies: Fractions of Regions, Fractions of Groups • You Be the Teacher: Fractions of Regions 	
<p>2.G.A.3 Partition circles and rectangles into two, three, and four equal shares, describe the shares using the words halves, thirds, fourths, half of, a third of, and a fourth of, and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.</p>	<ul style="list-style-type: none"> • Song: Fractions • Books: Halves and Fourths and Thirds; The Fraction Twins • Label Parts of Fractions • Geoboard • Fractions of Regions • Fractions of Group • Story Problem Strategies: Fractions of Regions, Fractions of Groups • You Be the Teacher: Fractions of Regions, Fractions of Groups • Fractions Introduction 	



PRE-MATH & SCIENCE

Math Books

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

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



ALBUMS

Beginning Math Songs: Volume 1

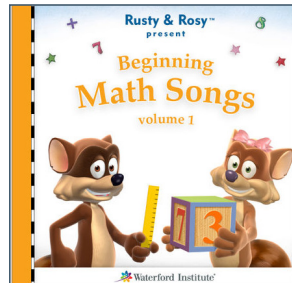
Odd Todd and Even Steven; Salsa Counting; On the Bayou—Addition; Subtract Those Cars; More Than, Fewer Than; A Nice Addition; Marching Band Counting; Doubles 1-5; Multiply by 0

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



Download these albums and more at iTunes. Search for "Waterford's Rusty & Rosy and Friends."

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

MY BACKPACK APP

Mental Math
Read-Alongs
Traditional Tales
Sing-Along Songs
Nursery Rhymes

