

MAY 2024

CURRICULUM Correlation



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

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WATERFORD BOOKS AND RELATED ACTIVITIES
WATERFORD FAMILY ENGAGEMENT RESOURCES



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
MATHEMATICS		
KINDERGARTEN		
Numbers and Operations (N)		
K.N.1 Understand the relationship b	etween quantities and whole numbers.	
K.N.1.1 Count aloud forward in sequence to 100 by 1's and 10's.	 Number Songs Counting Songs Math Books Number Instruction Number Counting Skip Counting 	<u>Count to 100 by ones and tens</u>
K.N.1.2 Recognize that a number can be used to represent how many objects are in a set up to 10.	 Math Books Number Songs Counting Songs Number Counting Number Instruction Make and Count Groups Bug Bits Match Numbers 	• Writing from 0 to 20
K.N.1.3 Use ordinal numbers to represent the position of an object in a sequence up to 10.	 Song: Ordinals Book: The Circus Came to Town Ordinal Numbers 	Ordinals: 1st-10th
K.N.1.4 Recognize without counting (subitize) the quantity of a small group of objects in organized and random arrangements up to 10.	Moving Target (Dots)Bug Bits	
K.N.1.5 Count forward, with and without objects, from any given number up to 20.	Counting SongsCount OnDot-to-Dot	<u>Counting forward</u>
K.N.1.6 Read, write, discuss, and represent whole numbers from 0 to at least 20. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives.	 Math Books Counting Songs Number Counting Number Instruction Make and Count Groups 	• <u>Write numbers 0–20</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.N.1 Understand the relationship b	etween quantities and whole numbers continued.	
K.N.1.7 Find a number that is 1 more or 1 less than a given number up to 10.	 Number Instruction Make and Count Groups Count On Counting Back Number Counting Number Chart 	• <u>Counting forward</u>
K.N.1.8 Compare and order whole numbers from 0 to 10 with and without objects, using the vocabulary "more than," "less than," or "equal to."	 Song: Greater Than, Less Than; More Than, Fewer Than Book: For the Birds Greater Than, Less Than More Than, Fewer Than More Than Fewer Than 	• <u>Comparing Two Numbers</u>
K.N.2 Develop conceptual understa	nding with addition and subtraction (up to 10) using o	bjects and pictures.
K.N.2.1 Compose and decompose numbers up to 10 using objects and pictures.	 Make and Count Groups Add Groups Act Out Addition Subtract Groups Act Out Subtraction 	Decompose Numbers
K.N.3 Understand the relationship b	etween whole numbers and fractions through fair sha	re.
K.N.3.1 Distribute a set of objects into at least two smaller equal sets.	Song: FractionsBook: Half for You and Half for MeMake and Count Groups	
K.N.4 Identify coins by name.		
K.N.4.1 Identify pennies, nickels, dimes, and quarters by name.	Song: Save Your PenniesCoin Identification	
Algebraic Reasoning and Algebra (A)		
K.A.1 Duplicate patterns in a variety of contexts.		
K.A.1.1 Sort and group up to 10 objects into a set based upon characteristics such as color, size, and shape. Explain verbally what the objects have in common.	 Songs: Marmot Shapes; All Sorts of Laundry Book: Buttons, Buttons Sort 	<u>Classifying Objects</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.A.1 Duplicate patterns in a variety	of contexts <i>continued</i> .	
K.A.1.2 Recognize, duplicate, complete, and extend repeating, increasing, and decreasing patterns in a variety of contexts (i.e., shape, color, size, objects, sounds, movement).	 Song: Train Station Patterns Patterns Pattern: AB; ABB; ABC 	
Geometry and Measurement (GM)		
K.GM.1 Recognize and sort basic tw	o-dimensional shapes, use two-dimensional and three-	dimensional shapes to represent real-world objects.
K.GM.1.1 Recognize squares, circles, triangles, and rectangles.	 Songs: Marmot Shapes; Shapes, Shapes, Shapes Books: The Shape of Things Circle, Square, Triangle, Rectangle Simple Shapes 	<u>Shape Recognition</u>
K.GM.1.2 Sort two-dimensional objects using characteristics such as shape and size.	 Songs: Marmot Shapes; All Sorts of Laundry Book: Buttons, Buttons Sort Size Simple Shapes 	<u>Classifying Objects</u>
K.GM.1.3 Identify attributes of two- dimensional shapes using informal and formal geometric language interchangeably, such as the number of corners/vertices and the number of sides/edges.	 Songs: Marmot Shapes; Shapes, Shapes, Shapes; Corners and Sides Books: The Shape of Things; Imagination Shapes Simple Shapes 	• <u>Shape Recognition</u>
K.GM.1.4 Use smaller two-dimensional shapes to fill in the outline of a larger two-dimensional shape.	TangramsGeoboard	Pattern Block Puzzles
K.GM.1.5 Compose larger, undefined shapes and structures using three- dimensional objects.	TangramsGeoboard	Form Larger Shapes



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.GM.1 Recognize and sort basic two-dimensional shapes, use two-dimensional and three-dimensional shapes to represent real-world objects continued.		
K.GM.1.6 Use basic shapes and spatial reasoning to represent objects in the real world.	 Songs: Position Cat; Kites; Get Over the Bugs; Shapes, Shapes, Shapes Books: The Shape of Things; Imagination Shapes; Up in the Air Over, Under, Above, Below Above, Below, Next to, On Over, Under, and Through Inside, Outside, Between Circle, Square, Triangle, Rectangle 	Describing Objects
K.GM.2 Compare and order objects	according to location and measurable attributes.	
K.GM.2.1 Use words to compare objects according to length, size, weight, position, and location.	 Songs: Savanna Size; Measuring Plants; Position Cat; Get Over the Bugs; Monster Trucks Book: Up in the Air Position Over, Under, Above, Below Over, Under, and Through Inside, Outside, Between Above, Below, Next to, On First, Middle, Last Size Order Size Capacity Length Big and Little Tall and Short Heavy and Light 	<u>Comparing Objects</u>
K.GM.2.2 Order up to 6 objects using measurable attributes, such as length and weight.	Song: Measuring PlantsLengthOrder Size	
K.GM.2.3 Identify more than one shared attribute between objects, and sort objects into sets.	 Songs: Same and Different; All Sorts of Laundry Book: Buttons, Buttons Match Matching Sort 	• <u>Classifying Objects</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
K.GM.2 Compare and order objects	according to location and measurable attributes conti	nued.
K.GM.2.4 Compare the number of objects needed to fill two different containers.	 Book: For the Birds Capacity Greater Than, Less Than More Than, Fewer Than More Than Fewer Than 	• <u>Comparing Objects</u>
K.GM.3 Tell time as it relates to dail	y life.	
K.GM.3.1 Develop an awareness of simple time concepts within daily life, using age-appropriate vocabulary (e.g., yesterday, today, tomorrow, morning, afternoon, night).	Yesterday/TomorrowToday	
Data and Probability (D)		
K.D.1 Collect, organize, and interpre	t categorical data.	
K.D.1.1 Collect and organize information about objects and events in the environment.	Calendar/Graph WeatherScience Observation: From Egg to Chick	Describing Objects
K.D.1.2 Use categorical data to create real-object graphs and pictographs.	Book: Milton's MittensCalendar/Graph Weather	
K.D.1.3 Draw conclusions from real- object graphs and pictographs.	Book: Milton's MittensCalendar/Graph Weather	
FIRST GRADE		
Numbers and Operations (N)		
1.N.1 Count, compare, and represent whole numbers up to 100, with an emphasis on grouping in terms of tens and ones.		
1.N.1.1 Recognize numbers to 20 without counting (subitize) the quantity of structured arrangements.	Moving Target (Dots)	
1.N.1.2 Use concrete representations to describe whole numbers between 10 and 100 in terms of tens and ones. Know that 10 is equivalent to 10 ones and 100 is equivalent to 10 tens.	Song: Place ValuePlace Value	• <u>Tens as a Bundle of Ones</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.N.1 Count, compare, and represent	whole numbers up to 100, with an emphasis on group	bing in terms of tens and ones <i>continued</i> .
1.N.1.3 Read, write, discuss, and represent whole numbers up to 100. Representations may include numerals, words, addition and subtraction, pictures, tally marks, number lines and manipulatives.	 Book: One More Cat Math Books Number Instruction Moving Target Make and Count Groups Act Out Addition Act Out Subtraction Bug Bits Match Numbers 	• <u>Count to 120</u>
1.N.1.4 Count forward, with objects, from any given number up to 100 by 1s, 2s, 5s and 10s.	 Songs: Counting On; Skip Counting; Hotel 100 Books: Navajo Beads; Jump Rope Rhymes Count On Skip Count 	• <u>Sequence to 100</u>
1.N.1.5 Count forward, without objects, by multiples of 1s, 2s, 5s, and 10s, up to 100.	 Songs: Counting On; Skip Counting; Hotel 100 Book: Jump Rope Rhymes Count On Skip Count 	<u>Sequence to 100</u>
1.N.1.6 Find a number that is 10 more or 10 less than a given number up to 100.	Number ChartAdd 10Subtract 10	• <u>Ten More or Less</u>
1.N.1.7 Compare and order whole numbers from 0 to 100.	 Book: For the Birds Greater Than, Less Than More Than, Fewer Than More Than Fewer Than Order Numbers 	
1.N.1.8 Use knowledge of number relationships to locate the position of a given whole number, up to 20, on an open number line.	Number LineUse the Number LineNumber Chart	
1.N.1.9 Use words such as "more than," "less than," and "equal to" to describe the relative value of numbers.	 Song: Greater Than, Less Than; More Than, Fewer Than More Than, Fewer Than Greater Than, Less Than 	<u>Compare Two-digit Numbers</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.N.2 Solve addition and subtraction	n problems with sums and minuends of up to 10 in real	-world and mathematical contexts.
1.N.2.1 Represent and solve problems using addition and subtraction with sums and minuends of up to 10.	 Songs: Pirates Can Add; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction Book: Five Delicious Muffins Add Groups Subtract Groups Act Out Addition Act Out Subtraction 	Addition and Subtraction Word Problems
1.N.2.2 Determine if equations involving addition and subtraction are true.	 Songs: Pirates Can Add; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction Book: Five Delicious Muffins Add Groups Subtract Groups Act Out Addition Act Out Subtraction Addition and Subtraction Fact Families 	Addition and Subtraction Word Problems
1.N.2.3 Demonstrate fluency with basic facts of addition and subtraction with sums and minuends of up to 10.	 Songs: Fact Families; Counting On Books: Facts about Families Addition and Subtraction Fact Families Addition Sentences Subtraction Sentences Missing Addends Missing Minuends and Subtrahends Subtraction Patterns 	Addition and Subtraction Word Problems
1.N.3 Develop foundational ideas for fractions.		
1.N.3.1 Partition a regular polygon using physical models and recognize when those parts are equal.	Song: FractionsBook: Halves and Fourths and ThirdsEqual-part Fractions	
1.N.3.2 Partition (fair share) sets of objects into two and three equal groups.	 Song: Fractions Book: Half for You and Half for Me; Halves and Fourths and Thirds Equal-part Fractions Fractions of Groups Label Parts of Fractions 	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.N.4 Identify coins and their values		
1.N.4.1 Identify pennies, nickels, dimes, and quarters by name and value.	 Song: Money Book: Bugs For Sale Coin Identification Coin Value Quarters 	
1.N.4.2 Write a number with the cent symbol to describe the value of a coin.	 Song: Money Book: Bugs For Sale Coin Identification Coin Value Quarters 	
1.N.4.3 Determine the value of a collection of pennies, nickels, or dimes up to one dollar counting by 1s, 5s, and 10s.	 Song: Money Book: Bugs For Sale Count Quarters, Dimes, Nickels, and Pennies Count Dimes, Nickels, and Pennies Count Nickels and Pennies or Dimes and Pennies Quarters Skip Counting 	• <u>Coin Identification</u>
Algebraic Reasoning and Algebra (A)	
1.A.1 Identify patterns found in real-	world and mathematical problems.	
1.A.1.1 Identify, create, complete, and extend repeating, increasing, and decreasing patterns in a variety of contexts (e.g., quantity, numbers, or shapes).	 Song: Train Station Patterns Book: How King Snake Got His Name Logic Game 	
Geometry and Measurement (GM)		
1.GM.1 Recognize and compose two- and three-dimensional shapes.		
1.GM.1.1 Identify regular and irregular trapezoids and hexagons by pointing to the shape when given the name.	• Song: Kites	
1.GM.1.2 Compose larger, defined shapes using smaller two- dimensional shapes.	 Song: Kites Space Shapes Geoboard Tangrams 	• Form Larger Shapes



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.GM.1 Recognize and compose two	- and three-dimensional shapes continued.	
1.GM.1.3 Compose structures with three-dimensional shapes.	Waterford encourages everyone to have writing, drawing, and art materials available for children's creations.	
1.GM.1.4 Recognize three-dimensional shapes such as cubes, cones, cylinders, pyramids, and spheres.	Songs: Kites; Corners and SidesSpace ShapesSolid Shapes	
1.GM.2 Select and use nonstandard	and standard units to describe length and volume/cap	acity.
1.GM.2.1 Use nonstandard and standard measuring tools to measure the length of objects.	 Song: Measuring Plants Length Nonstandard Units of Length Standard Units of Length Measurement Tools 	• <u>Length Measurement</u>
1.GM.2.2 Illustrate that the length of an object is the number of same- size units of length that, when laid end-to-end with no gaps or overlaps, reach from one end of the object to the other.	Song: Measuring PlantsLengthMeasurement Tools	• <u>Length Measurement</u>
1.GM.2.3 Measure the same object/ distance with units of two different lengths and describe how and why the measurements differ.	Song: Measuring PlantsLengthMeasurement Tools	Measuring the Same Object Two Ways
1.GM.2.4 Describe a length to the nearest whole unit using a number with standard and nonstandard units.	LengthMeasurement Tools	Length Measurement
1.GM.2.5 Use standard and nonstandard tools to identify volume/capacity. Compare and sort containers that hold more, less, or the same amount.	CapacityMeasurement Tools	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
1.GM.3 Describe and measure concepts of time.		
1.GM.3.1 Tell time to the hour and half- hour (analog and digital).	 Song: Clock Hands Book: Mr. Romano's Secret, A Time Story Tell Time to the Hour Tell Time to the Half-hour 	• <u>Hours and Half-hours</u>
1.GM.3.2 Describe and measure calendar time by days, weeks, months, and years.	 Songs: Months of the Year; Days of the Week; Days in a Month Daily Calendar Yesterday/Tomorrow Today Calendar/Graph Weather 	
Data and Probability (D)		
1.D.1 Collect, organize, and interpret	t categorical and numerical data.	
1.D.1.1 Collect, sort, and organize data in up to three categories using representations (e.g., tally marks, tables, Venn diagrams).	 Songs: Tallying; Venn Diagrams Books: One More Cat; The Birds, the Beasts, and The Bat; The Boonville Nine Tally Marks Make a Table Venn Diagrams 	• <u>Data Categorization</u>
1.D.1.2 Use data to create pictographs and bar graphs that demonstrate one- to-one correspondence.	 Song: Graphing Book: The Boonville Nine Graphs Bar Graphs Picture Graphs 	• <u>Data Categorization</u>
1.D.1.3 Draw conclusions from pictographs and bar graphs.	 Song: Graphing Graphs Bar Graphs Picture Graphs 	• <u>Data Categorization</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
SECOND GRADE		
Numbers and Operations (N)		
2.N.1 Compare and represent whole	numbers up to 1,000 with an emphasis on place value	e and equality.
2.N.1.1 Read, write, discuss, and represent whole numbers up to 1,000. Representations should include, but are not limited to, numerals, words, pictures, tally marks, number lines, and manipulatives.	 Number Instruction Number Recognition and Sense Make and Count Groups Match Numbers 	• <u>Read and Write Numbers to 1000</u>
2.N.1.2 Use knowledge of number relationships to locate the position of a given whole number, up to 100, on an open number line.	Number Line	
2.N.1.3 Use place value to describe whole numbers between 10 and 1,000 in terms of hundreds, tens and ones, including written, standard, and expanded forms. Know that 10 is equivalent to 10 ones and 100 is equivalent to 10 tens.	 Song; Place Value Place Value of 2-digit Numbers Place Value of 3-digit Numbers 	• Thinking of 100 as a Bundle of 10s
2.N.1.4 Find 10 more or 10 less than a given three-digit number. Find 100 more or 100 less than a given three- digit number.	 Mental Math Games Skip Count Place Value Number Chart Number Patterns 	• <u>Mentally Adding or Subtracting 10 or 100</u>
2.N.1.5 Use objects to determine whether a number is even or odd.	Song: Odd Todd and Even StevenSkip Count by 2Addition Facts	Odd and Even Recognition
2.N.1.6 Use place value understanding to round numbers to the nearest ten and nearest hundred (up to 1,000). Recognize when to round in real-world situations.	Song: RoundingBook: The Fable FairRound to Tens	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
2.N.1 Compare and represent whole	numbers up to 1,000 with an emphasis on place value	and equality <i>continued</i> .
2.N.1.7 Use place value to compare and order whole numbers up to 1,000 using comparative language, numbers, and symbols (e.g., 425 > 276, 73 < 107, page 351 comes after page 350, 753 is between 700 and 800).	 Greater Than, Less Than Place Value Order Numbers 	• <u>Less Than, Equal To, or Greater Than</u>
2.N.2 Add and subtract one- and tw	o-digit numbers in real-world and mathematical probl	ems.
2.N.2.1 Use the relationship between addition and subtraction to generate basic facts with sums and minuends of up to 20.	 Song: Fact Families Addition and Subtraction Relationship Addition and Subtraction Fact Families 	• Add and subtract within 20
2.N.2.2 Demonstrate fluency with basic addition facts and related subtraction facts up to 20.	 Song: Fact Families Addition and Subtraction Relationship Addition and Subtraction Fact Families Speed Games 	Adding and subtracting within 20
2.N.2.3 Estimate sums and differences up to 100.		<u>Guess and Check</u>
2.N.2.4 Use strategies and algorithms based on knowledge of place value and equality to add and subtract two- digit numbers.	 Songs: Fact Families; Place Value Addition and Subtraction Relationship Addition and Subtraction Fact Families Place Value 	Explaining Addition and Subtraction Strategies
2.N.2.5 Solve addition and subtraction problems involving whole numbers up to two digits.	Song: Fact FamiliesAddition and Subtraction RelationshipAddition and Subtraction Fact Families	Add and Subtract within 100
2.N.2.6 Use concrete models and structured arrangements, such as repeated addition, arrays, and ten frames to develop an understanding of multiplication.	 Song: Multiplication Book: Tyrannosaurus X 1 Multiplication Multiply Using Arrays Multiply Using Repeated Addition 	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
2.N.3 Explore the foundational idea	s of fractions.	
2.N.3.1 Identify the parts of a set and area that represent fractions for halves, thirds, and fourths.	 Song: Fractions Books: The Fraction Twins; Halves and Fourths and Thirds Label Parts of Fractions Fractions of Regions Fractions of Groups 	• <u>Fractions</u>
2.N.3.2 Construct equal-sized portions through fair sharing (length, set, and area models for halves, thirds, and fourths).	 Song: Fractions Books: The Fraction Twins; Halves and Fourths and Thirds Label Parts of Fractions Fractions of Regions Fractions of Groups 	• <u>Fractions</u>
2.N.4 Determine the value of a set of	of coins.	
2.N.4.1 Determine the value of a collection of coins up to one dollar using the cent symbol.	 Song: Money Books: Bugs For Sale; Fudge For Sale Coin Identification Coin Value Count Coins Count Bills and Coins Count Quarters, Dimes, Nickels, and Pennies 	Solve Money Word Problems
2.N.4.2 Use a combination of coins to represent a given amount of money up to one dollar.	 Song: Money Coin Identification Coin Value Count Coins Count Bills and Coins Count Quarters, Dimes, Nickels, and Pennies Equivalent Sums of Money 	<u>Solve Money Word Problems</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Algebraic Reasoning and Algebra (A)	
2.A.1 Describe the relationship foun	d in patterns to solve real-world and mathematical pro	oblems.
2.A.1.1 Represent, create, describe, complete, and extend increasing and decreasing patterns with quantity and numbers in a variety of contexts.	 Song: Train Station Patterns Book: How King Snake Got His Pattern Patterns of 2-digit Numbers Patterns of 3-digit Numbers Addition Patterns Subtraction Patterns Number Patterns Number Sequences and Patterns 	
2.A.1.2 Represent and describe repeating patterns involving shapes in a variety of contexts.	 Songs: Train Station Patterns; Marmot Shapes Book: How King Snake Got His Pattern Extend Patterns 	
2.A.2 Use number sentences involvi	ing unknowns to represent and solve real-world and m	athematical problems.
2.A.2.1 Use objects and number lines to represent number sentences.	 Song: Finding the Difference Number Line Addition Sentences Subtraction Sentences 	
2.A.2.2 Generate models and situations to represent number sentences and vice versa.	 Song: Problem Solving Books: Painting By Number; Circus 20 Addition Sentences Subtraction Sentences Add Vertical Squares Add With Manipulatives 	
2.A.2.3 Apply the commutative property, identity property, and number sense to find values for unknowns that make addition and subtraction number sentences true or false.	 Addition and Subtraction Relationship Commutative Properties of Addition Addition and Subtraction Fact Families Addition Subtraction Add without Regrouping Add with Regrouping Subtract without regrouping Subtract with Regrouping Act Out Addition Act Out Subtraction Number Recognition and Sense 	Addition and Subtraction Word Problems



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Geometry and Measurement (GM)		
2.GM.1 Analyze attributes of two- ar	nd three-dimensional figures and develop generalization	ons about their properties.
2.GM.1.1 Recognize regular and irregular trapezoids and hexagons.	• Song: Kites	
2.GM.1.2 Describe, compare, and classify two-dimensional figures according to their geometric attributes.	 Songs: Kites; Shapes, Shapes, Shapes Books: The Shape of Things; Imagination Shapes Circle, Square, Triangle, Rectangle Simple Shapes 	
2.GM.1.3 Compose and decompose two-dimensional shapes using triangles, squares, hexagons, trapezoids, and rhombi.	GeoboardTangrams	
2.GM.1.4 Sort three-dimensional shapes based on attributes such as number of faces, vertices, and edges.	Song: Corners and SidesWorld ShapesSpace Shapes	
2.GM.1.5 Recognize right angles and classify angles as smaller or larger than a right angle.		
2.GM.2 Understand length as a mea	surable attribute and explore capacity.	
2.GM.2.1 Explain the relationship between the size of the unit of measurement and the number of units needed to measure the length of an object.	 Song: Measuring Plants Length Standard Units of Length Nonstandard Units of Length Measurement Tools 	• Length Measurement
2.GM.2.2 Explain the relationship between length and the numbers on a ruler by using a ruler to measure lengths to the nearest whole unit.	LengthStandard Units of LengthMeasurement Tools	
2.GM.2.3 Explore how varying shapes and styles of containers can have the same capacity.	Book: Birds at My HouseCapacity	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
2.GM.3 Tell time to the quarter hour		
2.GM.3.1 Distinguish between a.m. and p.m.		<u>Tell and Write Time</u>
2.GM.3.2 Read and write time to the quarter-hour on an analog and digital clock.	 Song: Telling Time Tell Time to the Hour Tell Time to the Half-hour Tell Time to the Quarter Hour 	
Data and Probability (D)		
2.D.1 Collect, organize, and interpre	t data.	
2.D.1.1 Explain that the length of a bar in a bar graph and the number of objects in a pictograph represents the number of data points for a given category.	Song: GraphingBar GraphsPicture Graphs	• <u>Graphs</u>
2.D.1.2 Organize a collection of data with up to four categories using pictographs and bar graphs with intervals of 1s, 2s, 5s or 10s.	Book: Painting By NumberBar GraphsPicture Graphs	• <u>Graphs</u>
2.D.1.3 Write and solve one-step word problems involving addition or subtraction using data represented within pictographs and bar graphs with intervals of one.	 Book: Painting By Number Bar Graphs Picture Graphs 	• <u>Data Categorization</u>
2.D.1.4 Draw conclusions and make predictions from information in a pictograph and bar graph.	 Book: Painting By Number Bar Graphs Picture Graphs Story Problem Strategies Problem Solving Strategies 	• <u>Data Categorization</u>



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES	
	SCIENCE		
KINDERGARTEN			
Motion and Stability of Forces (PS2			
K.PS2.1 Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	 Song: Push and Pull Book: Mr. Mario's Neighborhood Push and Pull 	Learning Together: How It Works	
K.PS2.2 Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or pull.*	Song: Push and PullPush and Pull		
Energy (PS3)			
K.PS3.1 Make observations to determine the effect of sunlight on Earth's surface.	Songs: Water; Plants Are Growing; Sun BluesSunWater		
K.PS3.2 Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.*	Waterford encourages everyone to have writing, drawing, and art materials available for children's creations.	<u>Sun and Shade Pictures</u>	
From Molecules to Organisms: Structure and Function (LS1)			
K.LS1.1 Use observations to describe patterns of what plants and animals (including humans) need to survive.	 Songs: Water; Food From Plants Books: Mela's Water Pot; Everybody Needs to Eat Sun Plants Water Plants and Animals Need Air Healthy Plants' Needs 	 More to Explore Experiment: Water for Plants Learning Together: Green and Growing 	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Earth Systems (ESS2)		
K.ESS.2.1 Use and share observations of local weather conditions to describe patterns over time.	 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: <u>Weather</u>; <u>The Weather Around Us</u> <u>Weather Cards</u>
K.ESS2.2 Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.	 Books: Winter Snoozers; Birds at my House; The Old Maple Tree; Turtle's Pond 	
Earth and Human Activity (ESS3)		
K.ESS3.1 Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.	 Song: Four Ecosystems Book: Where in the World Would You Go Today? Oceans Mountains Deserts Rainforests 	• <u>Learning Together: Our Earth</u>
K.ESS3.2 Ask questions to understand the purpose of weather forecasting to prepare for and respond to severe weather.*	 Songs: Precipitation; Storms Book: Whatever the Weather Weather Tools Calendar/Graph Weather 	
FIRST GRADE		
Waves and Their Applications in Technologies for Information Transfer (PS4)		
1.PS4.1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	Song: SoundBook: What Sounds SaySound Waves	More to Explore Experiment: Sound



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Waves and Their Applications in Te	chnologies for Information Transfer (PS4) continued	
1.PS4.2 Make observations to construct an evidence-based account that objects can be seen only when illuminated.	 Books: My Family Campout; Lightning Bugs; Noise in the Night Light Properties Properties of Light 	
1.PS4.3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.	Book: My Family CampoutLight PropertiesProperties of Light	
1.PS4.4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.*	 Song: Inventing Books: I Want to Be a Scientist Like Thomas Edison; Inventions All Around 	
From Molecules to Organisms: Stru	cture and Function (LS1)	
1.LS1.1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.*	 Books: I Wish I Had Ears Like a Bat; Animal Bodies; Fawn Eyes Deserts 	
1.LS1.2 Obtain information from media and/or text to determine patterns in the behavior of parents and offspring that help offspring survive.	Song: Animal BodiesAnimal BehaviorAnimal Bodies	
1.LS3.1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.	Books: George and Jack; A Seed GrowsBuild Knowledge: Mine	More to Explore Experiment: Traits
Earth's Place in the Universe (ESS1)		
1.ESS1.1 Use observations of the sun, moon, and stars to describe patterns that can be predicted.	 Songs: The Moon; Sun Blues Books: Moon Song; Star Pictures; My Family Campout Sun Moon Constellations 	 More to Explore Experiment: The Moon Learning Together: The Sky Above Us



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Earth's Place in the Universe (ESS1)	continued	
1.ESS1.2 Make observations at different times of year to relate the amount of daylight and relative temperature to the time of year.	 Sun Spring Summer Fall Winter 	
Earth and Human Activity (ESS3)		
1.ESS3.1 Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.*	 Songs: Conservation; Pollution Rap Pollution and Recycling Care of Water Care of Earth 	 <u>More to Explore Experiment: Recycling</u> <u>Learning Together: Our Earth</u>
SECOND GRADE		
Matter and Its Interactions (PS1)		
2.PS1.1 Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.	 Book: Warm Soup for Dedushka Changes in Matter States of Water Materials 	
2.PS1.2 Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for the intended purpose.*	 Book: Warm Soup for Dedushka Heat Movement Movement of Heat Heat Experiment 	
2.PS1.3 Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object	 Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around Geoboard Tangrams 	
2.PS1.4 Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.	 Book: Warm Soup for Dedushka Matter Changes in Matter Movement of Heat 	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Ecosystems: Interactions, Energy ar	nd Dynamics (LS2)	
2.LS2.1 Plan and conduct an investigation to determine if plants need sunlight and water to grow.	 Song: Plants Are Growing Sun Water Plant Experiment Healthy Plants' Needs 	More to Explore Experiment: Light for Plants
2.LS2.2 Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.*	• Books: The Bee's Secret; The Old Maple Tree	
Biological Unity and Diversity (LS4))	
2.LS4.1 Make observations of plants and animals to compare the diversity of life in different habitats.	 Songs: Animal Bodies; Four Ecosystems Books: Animal Bodies; Where in the World Would You Go Today? Ecosystems Animal Bodies Animal Behavior 	• Learning Together: Places on Earth
Earth's Place in the Universe (ESS1)		
2.ESS1.1 Use information from several sources to provide evidence that Earth events can occur quickly or slowly.	 Songs: The Four Seasons; Rock Cycle Books: That's What I Like: A Book About Seasons; Whatever the Weather; Fossils Under Our Feet Rock Cycle Fossils Spring Summer Fall Winter Water 	More to Explore Experiment: Rocks
Earth's Systems (ESS2)		
2.ESS2.1 Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.*	Waterford encourages everyone to have writing, drawing, and art materials available for children's creations.	



OKLAHOMA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD TEACHER RESOURCES
Earth's Systems (ESS2) continued		
2.ESS2.2 Develop a model to represent the shapes and kind of land and bodies of water in an area.	 Songs: Water; Precipitation; Water Is All Around Water Sources Water Water Cycle Care of Water Oceans 	
2.ESS2.3 Obtain information to identify where water is found on Earth and that it can be solid or liquid.	 Songs: Water; Uses of Water; Precipitation; Water Is All Around Water Sources Water Water Cycle Care of Water States of Water Heat Changes Water 	



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 <u>here</u>.

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 O

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).