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Alignment
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Aligned

Waterford Early Learning: Math & Science

Texas Essential Knowledge and Skills Math 2017 & Science 2022

**Alignment content includes a sampling of Waterford Digital Activities and Resources*

Overview

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This document provides a detailed correlation of **Waterford Early Learning** to **Texas Essential Knowledge and Skills Math 2017 & Science 2022.**

Alignment Description

This document aligns Texas Essential Knowledge and Skills Math 2017 & Science 2022 to Waterford.org's digital activities and supporting resources.

Waterford Digital Activities

Waterford programs include engaging, evidence-based digital activities anchored in the science of learning that progress through an adaptive learning path in reading, math, and science. These activities are also available for collaborative instruction at →teacher.waterford.org.

- **Classroom Playlists** enable teachers to harness learning technologies in whole-class instruction, flexible small groups, and personalized support for individual students.

Waterford Resources

Waterford provides an engaging, diverse collection of PDF resources tailored to boost children's learning experiences, empowering instruction in both classroom and home settings.

- **Teacher Resources** encompass class activities, reference materials, teacher guides, an array of books, and more.
- **Family Resources** encompass newsletters, activity sets, and reference materials, all available in both English and Spanish.

Waterford Curriculum Details

Waterford programs leverage the science of learning and evidence-based research to optimize reading development, accelerate learning, and target interventions for PreK–2nd grade learners.

Adaptive, Individualized Learning

Tailored instruction enables students to progress through the sequence at their own pace, offering multiple opportunities for practice as needed and more challenging activities when students are ready. This adaptation is automatic within the learning sequence. More information on the adaptive learning sequence can be found in →Waterford's Adaptive Learning Path in Action video.

Data-Informed Instruction

Administrators and teachers can use the program's reporting features to monitor progress in real-time, identify areas of difficulty, and utilize additional intervention tools in varied instructional settings. Examples of the reporting features can be found →here.

Research-Driven Development

Waterford is committed to ongoing development based on the latest research findings. Please note that this correlation is accurate as of the date on the cover.

Reading Sequence

Waterford's Reading Sequence is aligned to the Science of Reading, with explicit and systematic instruction. The sequence develops phonics; phonological awareness; comprehension and vocabulary; language concepts and writing; and fluency. More detailed information can be found in the →Reading Skills Scope & Sequence.

Math and Science Sequence

Waterford's Math and Science Sequence is designed around clear instructional principles. The math sequence develops numbers and operations (including counting and cardinality); operations and algebraic thinking; measurement and data; and geometry. The science sequence develops an understanding of physical, life, earth and space domains. More detailed information can be found in the →Math and Science Scope & Sequence.

SmartStart Sequence

Waterford's SmartStart Sequence is designed so learners are exposed to the foundational principles critical to kindergarten readiness. SmartStart combines the digital learning path with teacher resources to teach early reading, math, science, and social studies concepts as well as executive function, creative arts, health, and physical development. More detailed information can be found in the →SmartStart Scope & Sequence.

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Texas Standards	Waterford Digital Activities	Waterford Resources
Mathematics		
Kindergarten Knowledge and Skills		
1. Mathematical Process Standards.		
The student uses mathematical processes to acquire and demonstrate mathematical understanding.		
TEKS.Math.K.1.A. Apply mathematics to problems arising in everyday life, society, and the workplace.	• Song: Problem Solving • Book: Milton's Mittens	
TEKS.Math.K.1.B. Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.	• Song: Problem Solving • Book: Milton's Mittens	
TEKS.Math.K.1.C. Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.	• Song: Problem Solving • Book: Milton's Mittens • Number Instruction • Measurement Tools	
TEKS.Math.K.1.D. Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	• Book: Milton's Mittens • Calendar/Graph Weather • Science Observation: From Egg to Chick	
TEKS.Math.K.1.E. Create and use representations to organize, record, and communicate mathematical ideas.	• Book: Milton's Mittens • Calendar/Graph Weather • Science Observation: From Egg to Chick	
TEKS.Math.K.1.F. Analyze mathematical relationships to connect and communicate mathematical ideas.	• Math Books • Act Out Addition • Act Out Subtraction	

Texas Standards	Waterford Digital Activities	Waterford Resources
The student uses mathematical processes to acquire and demonstrate mathematical understanding *continued*.		
TEKS.Math.K.1.G. Display, explain and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	• Math Books • Act Out Addition • Act Out Subtraction	
2. Number and Operations.		
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value.		
TEKS.Math.K.2.A. Count forward and backward to at least 20 with and without objects.	• Number Songs • Counting Songs • Math Books • Number Instruction • Number Counting ***Classroom Playlists*** • TEKS: K: Number and Operations: Count Forward • TEKS: K: Number and Operations: Count Backward	• Count Forward
TEKS.Math.K.2.B. Read, write, and represent whole numbers from 0 to at least 20 with and without objects or pictures.	• Math Books • Number Songs • Counting Songs • Number Counting • Number Instruction • Moving Target • Number Review ***Classroom Playlists*** • TEKS: K: Number and Operations: Numbers and Counting:	• Write Numbers 0-20

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		
TEKS.Math.K.2.C. Count a set of objects up to at least 20 and demonstrate that the last number said tells the number of objects in the set regardless of their arrangement or order.	• Math Books • Counting Songs • Number Instruction • Make and Count Groups • One-to-one Correspondence • Number Counting ***Classroom Playlists*** • TEKS: K: Number and Operations: Count Objects • TEKS: K: Number and Operations: Numbers and Counting:	• Object Counting Grouping
TEKS.Math.K.2.D. Recognize instantly the quantity of a small group of objects in organized and random arrangements.	• Make and Count Groups • Moving Target (Dots) ***Classroom Playlists*** • TEKS: K: Number and Operations: Recognize Quantities	
TEKS.Math.K.2.E. Generate a set using concrete and pictorial models that represents a number that is more than, less than, and equal to a given number up to 20.	• Song: Greater Than, Less Than • Book: For the Birds • Make and Count Groups • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than ***Classroom Playlists*** • TEKS: K: Number and Operations: More Than, Less Than, Equal	• Greater, Less, or Equal

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		
TEKS.Math.K.2.F. Generate a number that is one more than or one less than another number up to at least 20.	• Songs: Counting Backward; Counting Songs • Make and Count Groups • One-to-one Correspondence • Number Counting • Count On • Count Down ***Classroom Playlists*** • TEKS: K: Number and Operations: Count Down • TEKS: K: Number and Operations: Count On	• Object Counting Succession
TEKS.Math.K.2.G. Compare sets of objects up to at least 20 in each set using comparative language.	• Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than ***Classroom Playlists*** • TEKS: K: Number and Operations: More Than, Less Than, Equal	• Greater, Less, or equal
TEKS.Math.K.2.H. Use comparative language to describe two numbers up to 20 presented as written numerals.	• Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than ***Classroom Playlists*** • TEKS: K: Number and Operations: More Than, Less Than, Equal	• Compare Two Numbers

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		
TEKS.Math.K.2.I. Compose and decompose numbers up to 10 with objects and pictures.	• Make and Count Groups • Make 10 • Add Groups • Subtract Groups • Sums • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: K: Number and Operations: Compose Up to 10 • TEKS: K: Number and Operations: Decompose Up to 10	• Decompose Numbers
3. Number and Operations.		
The student applies mathematical process standards to develop an understanding of addition and subtraction situations in order to solve problems.		
TEKS.Math.K.3.A. Model the action of joining to represent addition and the action of separating to represent subtraction.	• Songs: Addition; Bee Happy Addition; On the Bayou; Bakery Subtraction; Circus Subtraction; Subtract Those Cars • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Add With Manipulatives • Add With Beads • Minuends • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: K: Number and Operations: Addition • TEKS: K: Number and Operations: Subtraction	• Represent Addition and Subtraction with Objects

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to develop an understanding of addition and subtraction situations in order to solve problems *continued*.		
TEKS.MATH.K.3.B. Solve word problems using objects and drawings to find sums up to 10 and differences within 10.	• Songs: Addition; Bee Happy Addition; On the Bayou; Bakery Subtraction; Circus Subtraction; Subtract Those Cars • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Add With Manipulatives • Minuends • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: K: Number and Operations: Word Problem Sums • TEKS: K: Number and Operations: Word Problem Differences	• Addition and Subtraction Word Problems
TEKS.MATH.K.3.C. Explain the strategies used to solve problems involving adding and subtracting within 10 using spoken words, concrete an pictorial models, and number sentences.	• Songs: Addition; Bee Happy Addition; On the Bayou; Bakery Subtraction; Circus Subtraction; Subtract Those Cars • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Add With Manipulatives • Add With Beads • Minuends • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: K: Number and Operations: Strategies: Addition • TEKS: K: Number and Operations: Strategies: Subtraction	• Strategies to Add and Subtract

Texas Standards	Waterford Digital Activities	Waterford Resources
4. Number and Operations.		
The student applies mathematical process standards to identify coins in order to recognize the need for monetary transactions.		
TEKS.Math.K.4.A The student is expected to: identify U.S. coins by name, including pennies, nickels, dimes, and quarters.	• Song: Save Your Pennies • Coin Identification ***Classroom Playlists*** • TEKS: K: Number and Operations: Coins	
5. Algebraic Reasoning.		
The student applies mathematical process standards to identify the pattern in the number word list.		
TEKS.Math.K.5.A recite numbers up to at least 100 by ones and tens beginning with any given number.	• Number Songs • Counting Songs • Math Books • Skip Counting • Number Instruction • Number Counting • Count On • Count On by 1 ***Classroom Playlists*** • TEKS: K: Algebraic Reasoning: Count to 100	• Count Forward
6. Geometry and Measurement.		
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties.		
TEKS.Math.K.6.A. Identify two-dimensional shapes, including circles, triangles, rectangles, and squares as special rectangles;	• Song: Marmot Shapes; Shapes, Shapes, Shapes • Books: The Shape of Things; Imagination Shapes • Simple Shapes • World Shapes • Circle, Square, Triangle, Rectangle ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: 2-dimensional Shapes	• Shape Recognition

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties *continued*.		
TEKS.Math.K.6.B. Identify three-dimensional solids, including cylinders, cones, spheres, and cubes, in the real world.	• Solid Shapes • Space Shapes • World Shapes ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: 3-dimensional Shapes	• Compare Shapes
TEKS.Math.K.6.C. Identify two-dimensional components of three-dimensional objects.	• Song: Corners and Sides • Simple Shapes • Solid Shapes ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: 3-dimensional Shapes	• Two-dimensional Shapes
TEKS.Math.K.6.D. Identify attributes of two-dimensional shapes using informal and formal geometric language interchangeably.	• Songs: Shapes, Shapes, Shapes; Corners and Sides • Books: The Shape of Things; Imagination Shapes • Simple Shapes • World Shapes • Circle, Square, Triangle, Rectangle ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: 2-dimensional Shapes	• Shape Recognition
TEKS.MATH.K.6.E. Classify and sort a variety of regular and irregular two- and three-dimensional figures regardless of orientation or size.	• Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites • Books: The Shape of Things; Imagination Shapes • Simple Shapes • Solid Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Sort ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: Sort Shapes	• Shape Recognition
TEKS.MATH.K.6.F. Create two-dimensional shapes using a variety of materials and drawings.	• Geoboard • Tangrams	• Model Shapes

Texas Standards	Waterford Digital Activities	Waterford Resources
7. Geometry and Measurement.		
The student applies mathematical process standards to directly compare measurable attributes.		
TEKS.MATH.K.7.A. Give an example of a measurable attribute of a given object, including length, capacity, and weight.	• Song: Measuring Plants • Length • Capacity ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: Measurable Attribute	• Measurable Attributes
TEKS.MATH.K.7.B. Compare two objects with a common measurable attribute to see which object has more of/less of the attribute and describe the difference.	• Songs: Measuring Plants; Savanna Size • Length • Capacity • Big and Little • Tall and Short • Heavy and Light ***Classroom Playlists*** • TEKS: K: Geometry and Measurement: Measurable Attribute	• Comparing Objects
8. Data Analysis.		
The student applies mathematical process standards to collect and organize data to make it useful for interpreting information.		
TEKS.MATH.K.8.A. Collect, sort, and organize data into two or three categories.	• Song: All Sorts of Laundry • Book: Buttons, Buttons • Sort ***Classroom Playlists*** • TEKS: K: Data Analysis: Sort	• Classifying Objects
TEKS.MATH.K.8.B. Use data to create real-object and picture graphs.	• Book: Milton's Mittens • Calendar/Graph Weather • Science Observation: From Egg to Chick ***Classroom Playlists*** • TEKS: K: Data Analysis: Graphs	

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to collect and organize data to make it useful for interpreting information *continued*.		
TEKS.MATH.K.8.C. Draw conclusions from real-object and picture graphs.	• Milton's Mittens • Calendar/Graph Weather • Science Observation: From Egg to Chick ***Classroom Playlists*** • TEKS: K: Data Analysis: Graphs	
9. Personal Financial Literacy.		
The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.		
TEKS.Math.K.9.A. Identify ways to earn income.	• Book: Bugs for Sale	• Learning About Income
TEKS.Math.K.9. B. Differentiate between money received as income and money received as gifts.		• Learning About Income
TEKS.Math.K.9. C. List simple skills required for jobs.		• Learning About Income
TEKS.Math.K.9. D. Distinguish between wants and needs and identify income as a source to meet one's wants and needs.		• Learning About Income
First Grade Knowledge and Skills		
1. Mathematical Process Standards.		
The student uses mathematical processes to acquire and demonstrate mathematical understanding.		
TEKS.Math.1.1.A. Apply mathematics **to** problems arising in everyday life, society, and the workplace.	• Song: Problem Solving	
TEKS.Math.1.1. B. Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.	• Song: Problem Solving	

Texas Standards	Waterford Digital Activities	Waterford Resources
The student uses mathematical processes to acquire and demonstrate mathematical understanding *continued*.		
TEKS.Math.1.1.C. Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.	• Song: Problem Solving • Use Manipulatives	
TEKS.Math.1.1.D. Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	• Song: Problem Solving	
TEKS.Math.1.1.E. Create and use representations to organize, record, and communicate mathematical ideas.	• Song: Problem Solving • Use Manipulatives	
TEKS.Math.1.1.F. Analyze mathematical relationships to connect and communicate mathematical ideas.	• Addition • Subtraction • Act Out Addition • Act Out Subtraction	
TEKS.Math.1.1.G. Display, explain and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	• Song: Problem Solving • Math Books	
2. Number and Operations.		
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value.		
TEKS.Math.1.2.A. Recognize instantly the quantity of structured arrangements.	• Moving Target (Dots) • Bug Bits ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Recognize Quantities	

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		
TEKS.Math.1.2.B. Use concrete and pictorial models to compose and decompose numbers up to 120 in more than one way as so many hundreds, so many tens, and so many ones;	• Place Value • Expanded Notation ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Place Value • TEKS: 1st Grade: Number and Operations: Expanded Form	• Tens And Ones
TEKS.Math.1.2.C. Use objects, pictures, and expanded and standard forms to represent numbers up to 120.	• Math Books • Place Value • Expanded Notation ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Place Value • TEKS: 1st Grade: Number and Operations: Expanded Form	• Count to 120
TEKS.Math.1.2.D. Generate a number that is greater than or less than a given whole number up to 120.	• Song: Greater Than, Less Than • Greater Than, Less Than • Count Down • Place Value ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Compare Numbers • TEKS: 1st Grade: Number and Operations: Place Value	• Compare Two-digit Numbers
TEKS.Math.1.2.E. Use place value to compare whole numbers up to 120 using comparative language.	• Place Value • Greater Than, Less Than ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Compare Numbers	• Compare Two-digit Numbers
TEKS.Math.1.2.F. Order whole numbers up to 120 using place value and open number lines.	• Place Value • Number Line • Number Chart • Order Numbers ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Order Numbers:	• Count to 120

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		
TEKS.Math.1.2.G. Represent the comparison of two numbers to 100 using the symbols >, <, or =.	• Book: For the Birds • Place Value • Greater Than, Less Than ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Compare Numbers	• Compare Two-digit Numbers
3. Number and Operations.		
The student applies mathematical process standards to develop and use strategies for whole number addition and subtraction computations in order to solve problems. The student is expected to:		
TEKS.Math.1.3.A. Use concrete and pictorial models to determine the sum of a multiple of 10 and a one-digit number in problems up to 99.	• Songs: Addition; Bee Happy Addition; On the Bayou • Act Out Addition • Addition • Count On • Count On by 1 ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Number Patterns	• Adding within 100
TEKS.Math.1.3.B. Use objects and pictorial models to solve word problems involving joining, separating, and comparing sets within 20 and unknowns as any one of the terms in the problem such as 2 + 4 = [ ]; 3 + [ ] = 7; and 5 = [ ] - 3.	• Missing Addends • Missing Minuends and Subtrahends • Addition and Subtraction Relationship • Commutative Property of Addition ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Missing Numbers	• Word Problems Using Subtraction within 20
TEKS.Math.1.3.C. Compose 10 with two or more addends with and without concrete objects.	• Make 10 • Missing Addends • Count On • Act Out Addition ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Add to 10	• Numbers that Make 10

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to develop and use strategies for whole number addition and subtraction computations in order to solve problems *continued*.		
TEKS.Math.1.3.D. Apply basic fact Strategies to Add and Subtract within 20, including making 10 and decomposing a number leading to a 10.	• Song: Fact Families • Book: Facts about Families • Make 10 • Addition and Subtraction Fact Families • Addition Patterns • Subtraction Patterns ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Fact Families	• Strategies to Add and Subtract
TEKS.Math.1.3.E. Explain strategies used to solve addition and subtraction problems up to 20 using spoken words, objects, pictorial models, and number sentences.	• Song: Fact Families • Book: Facts about Families • Addition and Subtraction Fact Families • Addition Patterns • Subtraction Patterns • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Strategies: Addition • TEKS: 1st Grade: Number and Operations: Strategies: Subtraction	• Strategies to Add and Subtract
TEKS.Math.1.3.F. Generate and solve problem situations when given a number sentence involving addition or subtraction of numbers within 20.	• Song: Fact Families • Book: Facts about Families • Addition and Subtraction Fact Families • Addition Patterns • Subtraction Patterns • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Strategies: Addition • TEKS: 1st Grade: Number and Operations: Strategies: Subtraction	• Word Problems Using Subtraction within 20

Texas Standards	Waterford Digital Activities	Waterford Resources
4. Number and Operations.		
The student applies mathematical process standards to identify coins, their values, and the relationships among them in order to recognize the need for monetary transactions.		
TEKS.Math.1.4.A. Identify U.S. coins, including pennies, nickels, dimes, and quarters, by value and describe the relationships among them.	• Song: Money • Book: Bugs For Sale • Count Nickels and Pennies or Dimes and Pennies • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Quarters • Equivalent Sums of Money ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Coin Identification	• Coin Identification
TEKS.Math.1.4.B. Write a number with the cent symbol to describe the value of a coin.	• Song: Money • Book: Bugs For Sale • Count Nickels and Pennies or Dimes and Pennies • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Quarters • Equivalent Sums of Money ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Coin Value	• Coin Identification
TEKS.Math.1.4.C. Use relationships to count by twos, fives, and tens to determine the value of a collection of pennies, nickels, and/or dimes.	• Songs: Money; Skip Counting • Book: Bugs For Sale • Skip Count • Count Nickels and Pennies or Dimes and Pennies • Count Dimes, Nickels, and Pennies ***Classroom Playlists*** • TEKS: 1st Grade: Number and Operations: Coin Value • TEKS: 1st Grade: Algebraic Reasoning: Skip Count	• Coin Identification

Texas Standards	Waterford Digital Activities	Waterford Resources
5. Algebraic Reasoning.		
The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships.		
TEKS.Math.1.5.A. Recite numbers forward and backward from any given number between 1 and 120.	• Songs: Counting On; Counting Backward • Book: A Space Adventure ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Count to 120	• Count to 120
TEKS.Math.1.5.B. Skip count by twos, fives, and tens to determine the total number of objects up to 120 in a set.	• Song: Counting On • Books: Circus 20; Jump Rope Rhymes; Navajo Beads • Skip Count by 2 • Skip Count by 5 • Skip Count by 10 • Count On • Make and Count Groups • Add Groups • Subtract Groups ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Skip Count	• Relate Counting to Addition and Subtraction
TEKS.Math.1.5.C. Use relationships to determine the number that is 10 more and 10 less than a given number up to 120.	• Add Tens • Subtract Tens • Number Chart • Skip Count ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Add or Subtract 10s	• Ten More or Less
TEKS.Math.1.5.D. Represent word problems involving addition and subtraction of whole numbers up to 20 using concrete and pictorial models and number sentences.	• Song: Fact Families • Book: Facts about Families • Addition and Subtraction Fact Families • Addition Patterns • Subtraction Patterns • Act Out Addition • Act Out Subtraction ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Word Problems	• Word problems Using Subtraction within 20

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships *continued*.		
TEKS.Math.1.5.E. Understand that the equal sign represents a relationship where expressions on each side of the equal sign represent the same value(s).	• Greater Than, Less Than ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Greater Than, Less Than	• Equal Sign
TEKS.Math.1.5.F. Determine the unknown whole number in an addition or subtraction equation when the unknown may be any one of the three or four terms in the equation.	• Missing Addends • Missing Minuends and Subtrahends • Addition and Subtraction Relationship • Commutative Property of Addition ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Missing Number	• Word Problems Using Subtraction within 20
TEKS.Math.1.5.G. Apply properties of operations to add and subtract two or three numbers.	• Addition • Add Without Regrouping • Subtraction • Subtract Without Regrouping • Add 3 One-digit Numbers ***Classroom Playlists*** • TEKS: 1st Grade: Algebraic Reasoning: Add 3 Whole Numbers • TEKS: 1st Grade: Algebraic Reasoning: Missing Number	• Add and Subtract within 100
6. Geometry and Measurement.		
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:		
TEKS.Math.1.6.A. Classify and sort regular and irregular two-dimensional shapes based on attributes using informal geometric language.	• Songs: Shapes, Shapes, Shapes; All Sorts of Laundry; Kites; Corners and Sides • Book: Buttons, Buttons • Circle, Square, Triangle, Rectangle • Simple Shapes • Sort ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Sort Two-dimentional Shapes	• Classifying Objects

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties *continued*.		
TEKS.Math.1.6.B. Distinguish between attributes that define a two-dimensional or three-dimensional figure and attributes that do not define the shape.	• Songs: Corners and Sides; Kites • Space Shapes • Simple Shapes ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Three-Dimensional Shapes	• Attributes
TEKS.Math.1.6.C. Create two-dimensional figures, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons.	• Geoboard • Tangrams	• Form Larger Shapes • Pattern Block Puzzle
TEKS.Math.1.6.D. Identify two-dimensional shapes, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons and describe their attributes using formal geometric language.	• Songs: Shapes, Shapes, Shapes; Kites; Corners and Sides • Book: The Shape of Things • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Simple Shapes ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Identify Two-dimensional Shapes	• Shape Recognition
TEKS.Math.1.6.E. Identify three-dimensional solids, including spheres, cones, cylinders, rectangular prisms (including cubes), and triangular prisms, and describe their attributes using formal geometric language.	• Song: Corners and Sides • Space Shapes ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Three-Dimensional Shapes	• Shape Recognition
TEKS.Math.1.6.F. Compose two-dimensional shapes by joining two, three, or four figures to produce a target shape in more than one way if possible.	• Geoboard • Tangrams	• Form Larger Shapes • Pattern Block Puzzle

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties *continued*.		
TEKS.Math.1.6.G. Partition two-dimensional figures into two and four fair shares or equal parts and describe the parts using words.	• Books: Half For You and Half For Me; Halves and Fourths and Thirds • Geoboard • Tangrams • Equal Part Fractions ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Fractions	• Equal Shares
TEKS.Math.1.6.H. Identify examples and non-examples of halves and fourths.	• Song: Fractions • Book: Halves and Fourths and Thirds • Equal-part Fractions ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Fractions	• Equal Shares
7. Geometry and Measurement.		
The student applies mathematical process standards to select and use units to describe length and time. The student is expected to:		
TEKS.Math.1.7.A. Use measuring tools to measure the length of objects to reinforce the continuous nature of linear measurement.	• Song: Measuring Plants • Length • Measurement Tools • Nonstandard Units of Length ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Tools	• Length Measurement
TEKS.Math.1.7.B. 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 Plants • Length • Nonstandard Units of Length ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Length Standard	• Length Measurement

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to select and use units to describe length and time *continued*.		
TEKS.Math.1.7.C. Measure the same object/distance with units of two different lengths and describe how and why the measurements differ.	• Song: Measuring Plants • Length • Nonstandard Units of Length ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Length Standard • TEKS: 1st Grade: Geometry and Measurement: Length Nonstandard	• Measuring the Same Object Two Ways
TEKS.Math.1.7.D. Describe a length to the nearest whole unit using a number and a unit.	• Song: Measuring Plants • Length • Measurement Tools • Nonstandard Units of Length ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Length Standard • TEKS: 1st Grade: Geometry and Measurement: Tools	• Measurement Tools
TEKS.Math.1.7.E. Tell time to the hour and half hour using analog and digital clocks.	• Song: Clock Hands • Books: Mr. Romano's Secret: A Time Story • Tell Time to the Hour • Tell Time to the Half-hour ***Classroom Playlists*** • TEKS: 1st Grade: Geometry and Measurement: Time: Hours • TEKS: 1st Grade: Geometry and Measurement: Time: Half-hour	• Hours and Half Hours

Texas Standards	Waterford Digital Activities	Waterford Resources
8. Data Analysis.		
The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems.		
TEKS.Math.1.8.A. Collect, sort, and organize data in up to three categories using models/ representations such as tally marks or T-charts.	• Song: Tallying; Graphing • Book: One More Cat • Tally Marks • Graphs ***Classroom Playlists*** • TEKS: 1st Grade: Data Analysis: Tally Marks	• Data Categorization
TEKS.Math.1.8.B. Use data to create picture and bar-type graphs.	• Song: Graphing • Graphs • Picture Graphs • Bar Graphs ***Classroom Playlists*** • TEKS: 1st Grade: Data Analysis: Graphs	• Graphs
TEKS.Math.1.8.C. Draw conclusions and generate and answer questions using information from picture and bar-type graphs.	• Song: Graphing • Graphs • Picture Graphs • Bar Graphs ***Classroom Playlists*** • TEKS: 1st Grade: Data Analysis: Graphs	• Graphs
9. Personal Financial Literacy.		
The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.		
TEKS.Math.1.9.A. Define money earned as income.		• Learning About Income
TEKS.Math.1.9.B. Identify income as a means of obtaining goods and services, oftentimes making choices between wants and needs.		• Learning About Income
TEKS.Math.1.9.C. Distinguish between spending and saving.		• Learning About Income
TEKS.Math.1.9.D. Consider charitable giving.		

Texas Standards	Waterford Digital Activities	Waterford Resources
Second Grade Knowledge and Skills		
1. Mathematical Process Standards.		
The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:		
TEKS.Math.2.1.A. Apply mathematics to problems arising in everyday life, society, and the workplace.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number; Fudge For Sale	
TEKS.Math.2.1.B. Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number; Fudge For Sale	
TEKS.Math.2.1.C. Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock • Use Manipulatives • Number Recognition and Sense	
TEKS.Math.2.1.D. Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.	• Songs: Problem Solving; Graphing • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number; Fudge For Sale • Picture Graphs • Bar Graphs	
TEKS.Math.2.1.E. Create and use representations to organize, record, and communicate mathematical ideas.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number • Picture Graphs • Bar Graphs • Greater Than, Less Than	
The student uses mathematical processes to acquire and demonstrate mathematical understanding *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.1.F. Analyze mathematical relationships to connect and communicate mathematical ideas.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number • Addition • Subtraction • Act Out Addition • Act Out Subtraction	• Explaining Addition and Subtraction Strategies
TEKS.Math.2.1.G. Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	• Song: Problem Solving • Books: The Boonville Nine; Red Rock, River Rock; Painting By Number • Addition • Subtraction • Act Out Addition • Act Out Subtraction	• Explaining Addition and Subtraction Strategies
2. Number and Operations.		
The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value.		
TEKS.Math.2.2.A. Use concrete and pictorial models to compose and decompose numbers up to 1,200 in more than one way as a sum of so many thousands, hundreds, tens, and ones.	• Place Value • Expanded Notation ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Place Value	• Add and Subtract within 1000
TEKS.Math.2.2.B. Use standard, word, and expanded forms to represent numbers up to 1,200.	• Place Value • Expanded Notation ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Expanded Form	• Read and Write Numbers to 1000
The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system related to place value *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.2.C. Generate a number that is greater than or less than a given whole number up to 1,200.	• Song: Greater Than, Less Than • Greater Than, Less Than • Number Line • Place Value • Number Patterns • Number Chart ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Place Value • TEKS: 2nd Grade: Number and Operations: Compare Numbers to 1,200	• Less Than, Equal To, or Greater Than
TEKS.Math.2.2.D. Use place value to compare and order whole numbers up to 1,200 using comparative language, numbers, and symbols (>, <, or =).	• Song: Greater Than, Less Than • Greater Than, Less Than • Number Line • Place Value • Number Patterns ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Compare Numbers Up to 1,200	• Less Than, Equal To, or Greater Than
TEKS.Math.2.2.E. Locate the position of a given whole number on an open number line; and	• Number Line	
TEKS.Math.2.2.F. Name the whole number that corresponds to a specific point on a number line.	• Number Line	
3. Number and Operations.		

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to recognize and represent fractional units and communicates how they are used to name parts of a whole.		
TEKS.Math.TEKS.Math.2.3.A. Partition objects into equal parts and name the parts, including halves, fourths, and eighths, using words.	• Songs: Fractions; Fractions of Regions • Books: The Fraction Twins; Halves and Fourths and Thirds • Fractions • Fractions of Regions • Fractions of Groups • Label Parts of Fractions ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Fractions	• Fractions
TEKS.Math.2.3.B. Explain that the more fractional parts used to make a whole, the smaller the part; and the fewer the fractional parts, the larger the part.	• Songs: Fractions; Fractions of Regions • Books: The Fraction Twins; Halves and Fourths and Thirds • Fractions • Fractions of Regions • Fractions of Groups • Label Parts of Fractions ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Fractions	• Fractions
TEKS.Math.2.3.C. Use concrete models to count fractional parts beyond one whole using words and recognize how many parts it takes to equal one whole.	• Songs: Fractions; Fractions of Regions • Books: The Fraction Twins; Halves and Fourths and Thirds • Fractions • Fractions of Regions • Fractions of Groups • Label Parts of Fractions ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Fractions	• Fractions
The student applies mathematical process standards to recognize and represent fractional units and communicates how they are used to name parts of a whole *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.3.D. Identify examples and non-examples of halves, fourths, and eighths.	• Songs: Fractions; Fractions of Regions • Books: The Fraction Twins; Halves and Fourths and Thirds • Fractions • Fractions of Regions • Fractions of Groups • Label Parts of Fractions ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Fractions	• Fractions
4. Number and Operations.		
The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve addition and subtraction problems with efficiency and accuracy.		
TEKS.Math.2.4.A. Recall basic facts to add and subtract within 20 with automaticity;	• Songs: Fact Families; On the Bayou; Bee Happy Addition; A Nice Addition; Bakery Subtraction; Circus Subtraction • Addition Patterns • Subtraction Patterns • Mental Math • Speed Games ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Add and Subtract within 20	• Add and Subtract within 20
The student applies mathematical process standards to develop and use strategies and methods for whole number computations in order to solve addition and subtraction problems with efficiency and accuracy *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.4.B. Add up to four two-digit numbers and subtract two-digit numbers using mental strategies and algorithms based on knowledge of place value and properties of operations.	• Songs: Fact Families; On the Bayou; Bee Happy Addition; A Nice Addition; Bakery Subtraction; Circus Subtraction; Finding the Difference; Doubles • Subtraction Patterns • Mental Math • Place Value ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Place Value • TEKS: 2nd Grade: Number and Operations: Add with Regrouping • TEKS: 2nd Grade: Number and Operations: Subtract with Regrouping	• Adding Four 2-Digit Numbers
TEKS.Math.2.4.C. Solve one-step and multi-step word problems involving addition and subtraction within 1,000 using a variety of strategies based on place value, including algorithms.	• Songs: Fact Families; On the Bayou; Bee Happy Addition; A Nice Addition; Bakery Subtraction; Circus Subtraction; Finding the Difference; Doubles • Subtraction Patterns • Mental Math Games • Place Value ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Story Problem Strategies	• One- And Two-step Word Problems within 100
TEKS.Math.2.4.D. Generate and solve problem situations for a given mathematical number sentence involving addition and subtraction of whole numbers within 1,000.	• Book: Chloe's Cracker Caper • Missing Addends • Missing Minuends and Subtrahends • Mental Math Games • Addition and Subtraction Relationship ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Add 2- and 3-digit Numbers • TEKS: 2nd Grade: Number and Operations: Subtract 2- and 3- digit Numbers • TEKS: 2nd Grade: Number and Operations: Regrouping	• Add and Subtract within 1000

5. Number and Operations.

The student applies mathematical process standards to determine the value of coins in order to solve monetary transactions.

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.5.A. Determine the value of a collection of coins up to one dollar; and	• Songs: Money; Save Your Pennies • Money • Coin Identification • Quarters • Count Coins • Count Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Coin Value • Equivalent Sums of Money ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Money	
TEKS.Math.2.5.B. Use the cent symbol, dollar sign, and the decimal point to name the value of a collection of coins.	• Songs: Money; Save Your Pennies • Money • Coin Identification • Count Bills and Coins • Quarters • Count Coins • Count Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Coin Value • Equivalent Sums of Money ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Money	• Solve Money Word Problems
6. Number and Operations.		

Texas Standards	Waterford Digital Activities	Waterford Resources
The student applies mathematical process standards to connect repeated addition and subtraction to multiplication and division situations that involve equal groupings and shares. The student is expected to:		
TEKS.Math.2.6.A. Model, create, and describe contextual multiplication situations in which equivalent sets of concrete objects are joined; and	• Song: Multiplication • Book: Tyrannosaurus X 1 • Multiplication • Multiply Using Arrays • Multiply Using Repeated Addition • Multiplication Fact Families • Mental Math Games • Speed Games ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Multiplication	• Multiplication
TEKS.Math.2.6.B. Model, create and describe contextual division situations in which a set of concrete objects is separated into equivalent sets.	• Books: The Snow Project; Half for You and Half for Me • Division • Divide Using Repeated Subtraction • Divide Using Equal Sharing • Multiplication and Division Fact Families ***Classroom Playlists*** • TEKS: 2nd Grade: Number and Operations: Division	• Division
7. Algebraic Reasoning.		
The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships.		
TEKS.Math.2.7.A. Determine whether a number up to 40 is even or odd using pairings of objects to represent the number.	• Song: Odd Todd and Even Steven • Skip Count by 2 • Addition Facts ***Classroom Playlists*** • TEKS: 2nd Grade: Algebraic Reasoning: Even or Odd	• Odd and Even Recognition
The student applies mathematical process standards to identify and apply number patterns within properties of numbers and operations in order to describe relationships *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.7.B. Use an understanding of place value to determine the number that is 10 or 100 more or less than a given number up to 1,200.	• Place Value • Number Patterns • Number Chart • Skip Count ***Classroom Playlists*** • TEKS: 2nd Grade: Algebraic Reasoning: 10 or 100 More or Less	• Mentally Adding or Subtracting 10 or 100
TEKS.Math.2.7.C. Represent and solve addition and subtraction word problems where unknowns may be any one of the terms in the problem.	• Songs: A Nice Addition; On the Bayou; Bee Happy Addition; Fact Families; Bakery Subtraction; Circus Subtraction • Addition • Subtraction • Act Out Addition • Act Out Subtraction • Subtraction Patterns • Missing Addends • Missing Subtrahends • Missing Minuends ***Classroom Playlists*** • TEKS: 2nd Grade: Algebraic Reasoning: Missing Numbers	• One- and Two-step Word Problems within 100
8. Geometry and Measurement.		
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties.		
TEKS.Math.2.8.A. Create two-dimensional shapes based on given attributes, including number of sides and vertices.	• Songs: Shapes, Shapes, Shapes; Corners and Sides • Geoboard • Tangrams	• Draw Shapes
The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.8.B. Classify and sort three-dimensional solids, including spheres, cones, cylinders, rectangular prisms (including cubes as special rectangular prisms), and triangular prisms, based on attributes using formal geometric language.	• Song: Corners and Sides • Geoboard • Space Shapes • Tangrams ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Three-dimensional Shapes	• Classifying Objects
TEKS.Math.2.8.C. Classify and sort polygons with 12 or fewer sides according to attributes, including identifying the number of sides and number of vertices.	• Song: Corners and Sides ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Shape Attributes	• Classifying Objects
TEKS.Math.2.8.D. Compose two-dimensional shapes and three-dimensional solids with given properties or attributes.	• Geoboard • Tangrams ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Shape Attributes	• Draw Shapes
TEKS.Math.2.8.E. Decompose two-dimensional shapes such as cutting out a square from a rectangle, dividing a shape in half, or partitioning a rectangle into identical triangles and identify the resulting geometric parts.	• Song: Symmetry; Fractions • Fractions • Geoboard ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Decompose Shapes	
9. Geometry and Measurement		
The student applies mathematical process standards to select and use units to describe length, area, and time.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.9.A. Find the length of objects using concrete models for standard units of length.	• Book: Birds at My House • Length • Standard Units of Length • Measurement Tools ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Measure Length	• Measurement Tools
TEKS.Math.2.9.B. Describe the inverse relationship between the size of the unit and the number of units needed to equal the length of an object.	• Length • Standard Units of Length • Measurement Tools • Nonstandard Units of Length ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Measure Length	• Measuring the Same Object Two Ways
TEKS.Math.2.9.C. Represent whole numbers as distances from any given location on a number line.	• Number Line • Addition • Subtraction ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Number Line	• Generating Measurement Data
TEKS.Math.2.9.D. Determine the length of an object to the nearest marked unit using rulers, yardsticks, meter sticks, or measuring tapes.	• Length • Standard Units of Length • Measurement Tools ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Measure Length	• Measurement Tools
The student applies mathematical process standards to select and use units to describe length, area, and time *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.9.E. Determine a solution to a problem involving length, including estimating lengths.	• Length • Standard Units of Length • Measurement Tools ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Measure Length	• Estimating Lengths
TEKS.Math.2.9.F. Use concrete models of square units to find the area of a rectangle by covering it with no gaps or overlaps, counting to find the total number of square units, and describing the measurement using a number and the unit.	***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Perimeter	• Measurement: Length, Width & Height
TEKS.Math.2.9.G. Read and write time to the nearest one-minute increment using analog and digital clocks and distinguish between a.m. and p.m.	• Songs: Telling Time; Clock Hands • Tell Time • Tell Time to Five Minutes • Tell Time to the Quarter Hour • Tell Time to the Minute • Tell Time to the Hour • Tell Time to the Half-hour ***Classroom Playlists*** • TEKS: 2nd Grade: Geometry and Measurement: Time	• Tell and Write Time
10. Data Analysis.		
The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems.		
TEKS.Math.2.10.A. Explain that the length of a bar in a bar graph or the number of pictures in a pictograph represents the number of data points for a given category.	• Song: Graphing • Bar Graphs • Picture Graphs • Graphing ***Classroom Playlists*** • TEKS: 2nd Grade: Data Analysis: Graphs	• Graphs
The student applies mathematical process standards to organize data to make it useful for interpreting information and solving problems *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.10.B. Organize a collection of data with up to four categories using pictographs and bar graphs with intervals of one or more.	• Song: Graphing • Bar Graphs • Picture Graphs • Graphing ***Classroom Playlists*** • TEKS: 2nd Grade: Data Analysis: Graphs	• Graphs
TEKS.Math.2.10.C. Write and solve one-step word problems involving addition or subtraction using data represented within pictographs and bar graphs with intervals of one.	• Song: Graphing • Bar Graphs • Picture Graphs • Graphing • Addition • Subtraction ***Classroom Playlists*** • TEKS: 2nd Grade: Data Analysis: Graphs	• Graphs
TEKS.Math.2.10.D. Draw conclusions and make predictions from information in a graph.	• Song: Graphing • Bar Graphs • Picture Graphs • Graphing ***Classroom Playlists*** • TEKS: 2nd Grade: Data Analysis: Graphs	• Graphs
11. Personal Financial Literacy.		
The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.		
TEKS.Math.2.11.A. Calculate how money saved can accumulate into a larger amount over time.	• Song: Save Your Pennies	
TEKS.Math.2.11.B. Explain that saving is an alternative to spending.	• Song: Save Your Pennies	
TEKS.Math.2.11.C. Distinguish between a deposit and a withdrawal.		
The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security *continued*.		

Texas Standards	Waterford Digital Activities	Waterford Resources
TEKS.Math.2.11.D. Identify examples of borrowing and distinguish between responsible and irresponsible borrowing.		
TEKS.Math.2.11.E. Identify examples of lending and use concepts of benefits and costs to evaluate lending decisions.		
TEKS.Math.2.11.F. Differentiate between producers and consumers and calculate the cost to produce a simple item.		
SCIENCE		
Kindergarten		
Knowledge and Skills		
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:		
TEKS.Science.K.1.A ask questions and define problems based on observations or information from text, phenomena, models, or investigations.	• Song: Inventing • Books: Inventions All Around; I Want to Be a Scientist Like Wilbur and Orville Wright • Inventions	• Simple Machines
TEKS.Science.K.1.B use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems.	• Song: Inventing • Books: Inventions All Around; I Want to Be a Scientist Like Wilbur and Orville Wright • Inventions	• Simple Machines
TEKS.Science.K.1.C identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency-approved safety standards.	• Songs: Storms; Sun Blues • Lightning Safety • Science Investigation	• Emergency Preparedness for Kids • Fire Safety Activity for Kids • Thunder and Lightning • Smell Labels (Safe Smelling) • Good Playing Rules Rebus

Texas Standards	Waterford Digital Activities	Waterford Resources
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to *continued*:		
TEKS.Science.K.1.D use tools, including hand lenses, goggles, trays, cups, bowls, sieves or sifters, notebooks, terrariums, aquariums, samples (rocks, sand, soil, loam, gravel, clay, seeds, and plants), windsock, demonstration thermometer, rain gauge, straws, ribbons, non-standard measuring items, blocks or cubes, tuning fork, various flashlights, small paper cups, items that roll, noise makers, hot plate, opaque objects, transparent objects, foil pie pans, foil muffin cups, wax paper, Sun-Moon-Earth model, and plant life cycle model to observe, measure, test, and compare.	• Songs: The Scientific Method; Precipitation • Science Investigation • Science Tools • Measurement Tools • Weather Tools • Sun, Moon, and Stars • Plant Life Cycle and Growth • Animal Life Cycle and Growth • Science Observation: From Egg to Chick	• Water for Plants • The Moon • Light for Plants • Rocks • Evaporation • Our Earth • The Sky Above Us • Places on Earth • Butterfly Life Cycle • Frog Life Cycle • Amphibians • Metamorphosis
TEKS.Science.K.1.E collect observations and measurements as evidence.	• Water • Fossils • Science Observation: From Egg to Chick • Calendar/Graph Weather	
TEKS.Science.K.1.F record and organize data using pictures, numbers, words, symbols, and simple graphs.	• Song: Graphing • Graphs • Picture Graphs • Bar Graphs • Calendar/Graph Weather • Science Observation: From Egg to Chick	
TEKS.Science.K.1.G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Water Cycle • Experiments: Air; Density; Sound; Buoyancy; Pollution • Inventions	

Texas Standards	Waterford Digital Activities	Waterford Resources
(2) Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:		
TEKS.Science.K.2.A identify basic advantages and limitations of models such as their size, properties, and materials.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	
TEKS.Science.K.2.B analyze data by identifying significant features and patterns.	• Book: Moon Song • Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	
TEKS.Science.K.2.C use mathematical concepts to compare two objects with common attributes.	• Song: Big Small • Water Sources • Big and Little • Tall and Short • Heavy and Light • Large Small Toys • Big Little Animals	
TEKS.Science.K.2.D evaluate a design or object using criteria to determine if it works as intended.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	
(3) Scientific and en1gineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:		
TEKS.Science.K.3.A develop explanations and propose solutions supported by data and models.	• Books: How Did the Chicken Cross the Road?; Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.K.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	• Song: The Scientific Method • Science Investigation	• Speaking to Express Ideas
TEKS.Science.K.3.C listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	• Song: The Scientific Method • Science Investigation	• Speaking and Listening

Texas Standards	Waterford Digital Activities	Waterford Resources
(4) Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation on society. The student is expected to:		
TEKS.Science.K.4.A explain how science or an innovation can help others.	• Book: Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.K.4.B identify scientists and engineers such as Isaac Newton, Mae Jemison, and Ynes Mexia and explore what different scientists and engineers do.	• Books: I Want to Be a Scientist Like: Jane Goodall; George Washington Carver; Wilbur and Orville Wright; Antoni van Leeuwenhoek; Alexander von Humboldt; Joanne Simpson; Thomas Edison; Louis Pasteur; Marie Curie; Stephen Hawking; Isaac Newton	• Defying Gravity: The Story of Mae Jemison
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:		
TEKS.Science.K.5.A identify and use patterns to describe phenomena or design solutions.	• Song: Seasons • Books: Moon Song; The Four Seasons; That's What I Like: A Book About Seasons • Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	
TEKS.Science.K.5.B investigate and predict cause-and-effect relationships in science.	• Song: Seasons • Books: The Four Seasons; That's What I Like: A Book About Seasons • Calendar/Graph Weather • Sun, Moon, and Earth • Plants Need Water • Healthy Plants' Needs • Food Chains • Care of Earth	• Evaporation • Light for Plants • Water for Plants
TEKS.Science.K.5.C describe the properties of objects in terms of relative size (scale) and relative quantity.	• Song: Savanna Size • Big and Little • Large Small Toys • Tall and Short • Heavy and Light • More than, Fewer than	• Dinosaur Size

Texas Standards	Waterford Digital Activities	Waterford Resources
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to *continued*:		
TEKS.Science.K.5.D examine the parts of a whole to define or model a system.	• Edible Plant Parts • Food Chains • Functions of Plant Parts	• Plant Parts • Body Part Cards • Insect Parts Poster
TEKS.Science.K.5.E identify forms of energy and properties of matter.	• Songs: Matter; Precipitation; Solid or Liquid • Book: Pancakes Matter • Sun • Matter • Solid and Liquid • Solid, Liquid, Gas • States of Water • Heat Changes Water	• Temperature and Melting • Solids, Liquids, and Gases • Solid and Liquid • States of Water • How It Works
TEKS.Science.K.5.F describe the relationship between the structure and function of objects, organisms, and systems.	• Animal Groups • Teeth • Functions of Plant Parts	
TEKS.Science.K.5.G describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Weather • Spring • Summer • Fall • Winter • Animal Behavior • Animal Bodies • Animal Adaptations and Human Tools	• Animals • How Animals Survive

Texas Standards	Waterford Digital Activities	Waterford Resources
(6)Matter and It's properties. The student knows that objects hae physical properties and determine how they are described and classified. The student is expected to:		
TEKS.Science.K.6.identify and record observable physical properties of objects, including shape, color, texture, and material, and generate ways to classify objects.	• Songs: Marmot Shapes; Shapes, Shapes, Shapes; All Sorts of Laundry; Squirrel's Zoo Colors • Book: Buttons, Buttons • Sort • Touch • Sight • Materials	• Texture Sort
(7) Force, motion, and energy The student knows that forces cause changes in motion and position in everyday life.		
TEKS.Science.K.7 describe and predict how a magnet interacts with various materials and how magnets can be used to push or pull.	• Magnets • Materials	• How It Works
(8) Force, motion, and energy. The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:		
TEKS.Science.K.8.A communicate the idea that objects can only be seen when a light source is present and compare the effects of different amounts of light on the appearance of objects; and	• Books: My Family Campout; Lightning Bugs • Light Properties • Properties of Light ***Classroom Playlists*** • TEKS: K: Force, Motion, and Energy: Light	• Light Sources
TEKS.Science.K.8.B demonstrate and explain that light travels through some objects and is blocked by other objects, creating shadows.	• Books: My Family Campout; Lightning Bugs • Light Properties • Properties of Light ***Classroom Playlists*** • TEKS: K: Force, Motion, and Energy: Light	

Texas Standards	Waterford Digital Activities	Waterford Resources
(9) Earth and space. The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to:		
TEKS.Science.K.9.A identify, describe, and predict the patterns of day and night and their observable characteristics; and	• Sun, Moon, and Earth ***Classroom Playlists*** • TEKS: K: Earth and Space: Day and Night	
TEKS.Science.K.9.B observe, describe, and illustrate the Sun, Moon, stars, and objects in the sky such as clouds.	• Songs: The Moon; Sun Blues • Books: Star Pictures; What Is a Cloud?; Moon Song • Sun • Moon • Constellations • Clouds • Astronomy ***Classroom Playlists*** • TEKS: K: Earth and Space: Sun, Moon, Stars	• The Sky Above Us • The Moon • Sun, Moon, and Earth
(10) Earth and space. The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to:		
TEKS.Science.K.10.A describe and classify rocks by the observable properties of size, shape, color, and texture;	• Song: Rock Cycle • Book: Red Rock, River Rock • Rock Cycle ***Classroom Playlists*** • TEKS: K: Earth and Space: Rocks	• Rocks
TEKS.Science.K.10.B observe and describe weather changes from day to day and over seasons; and	• Songs: The Four Seasons; Precipitation • Books: That's What I Like: A Book About Seasons; Whatever the Weather • Weather Patterns • Calendar/Graph Weather • Spring • Summer • Fall • Winter ***Classroom Playlists*** • TEKS: K: Earth and Space: Weather	• Weather • The Weather Around Us • Weather Cards

Texas Standards	Waterford Digital Activities	Waterford Resources
(10) Earth and space. The student knows that the natural world includes earth materials and systems that can be observed. The student is expected to *continued*:		
TEKS.Science.K.10.C identify evidence that supports the idea that air is all around us and demonstrate that wind is moving air using items such as a windsock, pinwheel, or ribbon.	• Book: Can You Guess? A Story for Two Voices • Air • Air Uses • Air Experiment ***Classroom Playlists*** • TEKS: K: Earth and Space: Air Everywhere	• Taking Care of Our Air • Air Movement
(11) Earth and space. The student knows that earth materials are important to everyday life.		
TEKS.Science.K.11 observe and generate examples of practical uses for rocks, soil, and water.	• Songs: Rock Cycle; Water Cycle • Book: Red Rock, River Rock • Natural Resources • Rocks • Rock Cycle • Soil • Care of Water • States of Water • Water Uses ***Classroom Playlists*** • TEKS: K: Earth and Space: Cycles	• Rocks • Cleaning Solution • Where Does Soil Come From?
(12) Organisms and environments. The student knows that plants and animals depend on the environment to meet their basic needs for survival. The student is expected to:		
TEKS.Science.K.12.Aobserve and identify the dependence of plants on air, sunlight, water, nutrients in the soil, and space to grow; and	• Books: A Seed Grows; The Watermelon Seed • Plants • Plants Need Water • Healthy Plants' Needs • Plants and Animals Need Air • Sun • Plants and Animals ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Plants	• Water for Plants

Texas Standards	Waterford Digital Activities	Waterford Resources
(13) Organisms and environments. The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to *continued*:		
TEKS.Science.K.12.B observe and identify the dependence of animals on air, water, food, space, and shelter.	• Book: Everybody Needs to Eat • Food From Plants • Animals Need Water • Plants and Animals Need Air • Herbivores, Carnivores, and Omnivores • Plants and Animals ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Animal Survival	• Animals Need Water
TEKS.Science.K.13.A identify the structures of plants, including roots, stems, leaves, flowers, and fruits;	• Song: Plants Are Growing • Books: Follow the Apples; A Seed Grows; The Old Maple Tree • Plants • Functions of Plant Parts ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Plant Structure	
TEKS.Science.K.13.B identify the different structures that animals have that allow them to interact with their environment such as seeing, hearing, moving, and grasping objects;	• Book: Animal Bodies • Animal Bodies • Animal Tracks • Animal Behavior • Animal Adaptations and Human Tools ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Animal Bodies	

Texas Standards	Waterford Digital Activities	Waterford Resources
(13) Organisms and environments. The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to *continued*:		
TEKS.Science.K.13.C identify and record the changes from seed, seedling, plant, flower, and fruit in a simple plant life cycle.	• Song: Plants Are Growing • Books: A Seed Grows; The Old Maple Tree • Plants • Plant Life Cycle and Growth • Plant Experiment ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Plant Life Cycle	• The Plant Life Cycle • Water for Plants • Light for Plants
TEKS.Science.K.13.D identify ways that young plants resemble the parent plant.	• Book: A Seed Grows • Plant Life Cycle and Growth ***Classroom Playlists*** • TEKS: K: Organisms and Environments: Plant Life Cycle	• The Plant Life Cycle
Grade 1		
Knowledge and Skills		
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:		
TEKS.Science.1.1.A ask questions and define problems based on observations or information from text, phenomena, models, or investigations.	• Song: Inventing • Books: Inventions All Around; I Want to Be a Scientist Like Wilbur and Orville Wright • Inventions	• Recycling • Simple Machines
TEKS.Science.1.1.B use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems.	• Song: Inventing • Books: Inventions All Around; How Did the Chicken Cross the Road? • Inventions • Simple Machines	• Water for Plants • Sound • Recycling • Traits • Light for Plants • Evaporation

Texas Standards	Waterford Digital Activities	Waterford Resources
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to *continued*:		
TEKS.Science.1.1.C identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency-approved safety standards.	• Songs: Storms; Sun Blues • Lightning Safety • Science Investigation	• Emergency Preparedness for Kids • Fire Safety Activity for Kids • Thunder and Lightning • Smell Labels (Safe Smelling) • Good Playing Rules Rebus
TEKS.Science.1.1.D use tools, including hand lenses, goggles, heat-resistant gloves, trays, cups, bowls, beakers, sieves/sifters, tweezers, primary balance, notebooks, terrariums, aquariums, stream tables, soil samples (loam, sand, gravel, rocks, and clay), seeds, plants, windsock, pinwheel, student thermometer, demonstration thermometer, rain gauge, straws, ribbons, non-standard measuring items, flashlights, sandpaper, wax paper, items that are magnetic, non-magnetic items, a variety of magnets, hot plate, aluminum foil, Sun-Moon-Earth model, and plant and animal life cycle models to observe, measure, test, and compare.	• Songs: The Scientific Method; Precipitation • Science Investigation • Science Tools • Measurement Tools • Weather Tools • Sun, Moon, and Stars • Plant Life Cycle and Growth • Animal Life Cycle and Growth • Science Observation: From Egg to Chick	• Water for Plants • The Moon • Light for Plants • Rocks • Simple Machines • Evaporation • Weather • The Weather Around Us • How It Works • Our Earth • The Sky Above Us • Places on Earth • Butterfly Life Cycle • Frog Life Cycle
TEKS.Science.1.1.E collect observations and measurements as evidence.	• Fossils • Science Observation: From Egg to Chick • Calendar/Graph Weather	
TEKS.Science.1.1.F record and organize data using pictures, numbers, words, symbols, and simple graphs.	• Song: Graphing • Graphs • Picture Graphs • Bar Graphs • Calendar/Graph Weather • Science Observation: From Egg to Chick	

Texas Standards	Waterford Digital Activities	Waterford Resources
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to *continued*:		
TEKS.Science.1.1.G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Water Cycle • Experiments: Air; Density; Sound; Buoyancy; Pollution • Inventions	
(2) Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:		
TEKS.Science.1.2.A identify basic advantages and limitations of models such as their size, properties, and materials.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	
TEKS.Science.1.2.B analyze data by identifying significant features and patterns.	• Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	
TEKS.Science.1.2.C use mathematical concepts to compare two objects with common attributes.	• Song: Big Small • Big and Little • Tall and Short • Heavy and Light • Large Small Toys • Big Little Animals	
TEKS.Science.1.2.D evaluate a design or object using criteria to determine if it works as intended.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	

Texas Standards	Waterford Digital Activities	Waterford Resources
(3) Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:		
TEKS.Science.1.3.A develop explanations and propose solutions supported by data and models.	• Books: How Did the Chicken Cross the Road?; Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.1.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	• Song: The Scientific Method • Science Investigation	
TEKS.Science.1.3.C listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	• Song: The Scientific Method • Science Investigation	• Speaking and Listening
(4) Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation for society. The student is expected to:		
TEKS.Science.1.4.A explain how science or an innovation can help others.	• Book: Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.1.4.B identify scientists and engineers such as Katherine Johnson, Sally Ride, and Ernest Just and explore what different scientists and engineers do.	• Books: I Want to Be a Scientist Like: Jane Goodall; George Washington Carver; Wilbur and Orville Wright; Antoni van Leeuwenhoek; Alexander von Humboldt; Joanne Simpson; Thomas Edison; Louis Pasteur; Marie Curie; Stephen Hawking; Isaac Newton	
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:		
TEKS.Science.1.5.A identify and use patterns to describe phenomena or design solutions.	• Song: Seasons • Books: Moon Song; The Four Seasons; That's What I Like: A Book About Seasons • Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	

Texas Standards	Waterford Digital Activities	Waterford Resources
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to *continued*:		
TEKS.Science.1.5.B investigate and predict cause-and-effect relationships in science;	• Song: Seasons • Books: The Four Seasons; That's What I Like: A Book About Seasons • Calendar/Graph Weather • Sun, Moon, and Earth • Plants Need Water • Healthy Plants' Needs • Food Chains	• Evaporation • Light for Plants • Water for Plants
TEKS.Science.1.5.C describe the properties of objects in terms of relative size (scale) and relative quantity;	• Song: Savanna Size • Big and Little • Large Small Toys • Tall and Short • Heavy and Light • More than, Fewer than	• Dinosaur Size
TEKS.Science.1.5.D examine the parts of a whole to define or model a system.	• Edible Plant Parts • Food Chains • Functions of Plant Parts	• Plant Parts • Body Part Cards • Insect Parts Poster
TEKS.Science.1.5.E identify forms of energy and properties of matter.	• Songs: Matter; Precipitation; Solid or Liquid • Book: Pancakes Matter • Sun • Matter • Solid and Liquid • Solid, Liquid, Gas • States of Water • Heat Changes Water	• Temperature and Melting • Solids, Liquids, and Gases • Solid and Liquid • States of Water
TEKS.Science.1.5.F describe the relationship between structure and function of objects, organisms, and systems.	• Animal Groups • Teeth • Functions of Plant Parts	

Texas Standards	Waterford Digital Activities	Waterford Resources
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to *continued*:		
TEKS.Science.1.5.G describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Weather • Spring • Summer • Fall • Winter • Animal Behavior • Animal Bodies • Animal Adaptations and Human Tools	• Animals • How Animals Survive
(6) Matter and its properties. The student knows that objects have physical properties that determine how they are described and classified. The student is expected to:		
TEKS.Science.1.6.A classify objects by observable physical properties, including, shape, color, and texture, and attributes such as larger and smaller and heavier and lighter.	• Songs: Marmot Shapes; Shapes, Shapes, Shapes; All Sorts of Laundry; Squirrel's Zoo Colors • Book: Buttons, Buttons • Sort • Touch • Sight • Materials ***Classroom Playlists*** • TEKS: 1st Grade: Matter: Classify	• Texture Sort
TEKS.Science.1.6.B explain and predict changes in materials caused by heating and cooling.	• Books: Warm Soup for Dedushka; Pancakes Matter • Changes in Matter • Movement of Heat ***Classroom Playlists*** • TEKS: 1st Grade: Matter: Changes in Matter	
TEKS.Science.1.6.C demonstrate and explain that a whole object is a system made of organized parts such as a toy that can be taken apart and put back together.	• Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Geoboard • Tangrams	

Texas Standards	Waterford Digital Activities	Waterford Resources
(7) Force, motion, and energy. The student knows that forces cause changes in motion and position in everyday life. The student is expected to:		
TEKS.Science.1.7.A explain how pushes and pulls can start, stop, or change the speed or direction of an object's motion.	• Song: Push and Pull • Book: Mr. Mario's Neighborhood • Push and Pull ***Classroom Playlists*** • TEKS: Force, Motion, and Energy: Push and Pull	• How It Works
TEKS.Science.1.7.B plan and conduct a descriptive investigation that predicts how pushes and pulls can start, stop, or change the speed or direction of an object's motion.	• Song: Push and Pull • Book: Mr. Mario's Neighborhood • Push and Pull ***Classroom Playlists*** • TEKS: Force, Motion, and Energy: Push and Pull	• How It Works
(8) Force, motion, and energy. The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:		
TEKS.Science.1.8.A investigate and describe applications of heat in everyday life such as cooking food or using a clothes dryer.	• Book: Warm Soup for Dedushka • Heat Sources and Uses • Heat Movement • Movement of Heat • Heat Experiment ***Classroom Playlists*** • TEKS: 1st Grade: Force, Motion, and Energy: Heat	
TEKS.Science.1.8.B describe how some changes caused by heat may be reversed such as melting butter and other changes cannot be reversed such as cooking an egg or baking a cake.	• Songs: Matter; Precipitation • Book: Pancakes Matter • Heat • Heat Changes Water • Changes in Matter ***Classroom Playlists*** • TEKS: 1st Grade: Force, Motion, and Energy: Heat Changes Matter	• Temperature and Melting

Texas Standards	Waterford Digital Activities	Waterford Resources
(9) Earth and Space. The student knows that the natural world has recognizable patterns. The student is expected to:		
TEKS.Science.1.9 describe and predict the patterns of seasons of the year such as order of occurrence and changes in nature.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Spring • Summer • Fall • Winter ***Classroom Playlists*** • TEKS: 1st Grade: Force, Motion, and Energy: Seasons	• Weather Patterns
(10) Earth and space. The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:		
TEKS.Science.1.10.A investigate and document the properties of particle size, shape, texture, and color and the components of different types of soils such as topsoil, clay, and sand.	• Soil ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Soil	• Where Does Soil Come From?
TEKS.Science.1.10.B investigate and describe how water can move rock and soil particles from one place to another.	• Song: Rock Cycle • Rock Cycle ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Erosion	
TEKS.Science.1.10.C compare the properties of puddles, ponds, streams, rivers, lakes, and oceans, including color, clarity, size, shape, and whether it is freshwater or saltwater.	• Song: Water • Book: Water Is All Around • Water Sources • Natural Resources ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Water	

Texas Standards	Waterford Digital Activities	Waterford Resources
(10) Earth and space. The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to *continued*:		
TEKS.Science.1.10.D describe and record observable characteristics of weather, including hot or cold, clear or cloudy, calm or windy, and rainy or icy, and explain the impact of weather on daily choices.	• Book: Whatever the Weather • Weather • Calendar/Graph Weather • Weather Patterns • Clouds ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Weather	• Weather • The Weather Around Us • Weather Cards
(11) Earth and space. The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:		
TEKS.Science.1.11.A identify and describe how plants, animals, and humans use rocks, soil, and water;	• Songs: Conservation; Water • Books: Mela's Water Pot; Water Is All Around; A Seed Grows • Rocks • Care of Water • Animals Need Water • Plants Need Water • Natural Resources • Water Uses ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Water as a Resource • TEKS: 1st Grade: Earth and Space: Rocks as a Resource	• Rocks • Water • Animals Need Water

Texas Standards	Waterford Digital Activities	Waterford Resources
(11) Earth and space. The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to *continued*:		
TEKS.Science.1.11.B explain why water conservation is important.	• Song: Conservation • Book: Water Is All Around • Care of Water • Animals Need Water • Plants Need Water • Natural Resources ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Conserve Water	• Taking Care of Our Water
TEKS.Science.1.11.C describe ways to conserve water such as turning off the faucet when brushing teeth and protect natural sources of water such as keeping trash out of bodies of water.	• Songs: Conservation; Pollution Rap • Pollution and Recycling • Care of Water • Care of Earth ***Classroom Playlists*** • TEKS: 1st Grade: Earth and Space: Conserve Water	• Recycling • Earth
(12) Organisms and environments. The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to:		
TEKS.Science.1.12.A classify living and nonliving things based upon whether they have basic needs and produce young.	• Song: Living and Nonliving • Living or Nonliving • Mammals • Rocks ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Living or Nonliving	• Living or Nonliving
TEKS.Science.1.12.B describe and record examples of interactions and dependence between living and nonliving components in terrariums or aquariums.	• Ecosystems ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Living or Nonliving	

Texas Standards	Waterford Digital Activities	Waterford Resources
(12) Organisms and environments. The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to *continued*:		
TEKS.Science.1.12.C identify and illustrate how living organisms depend on each other through food chains.	• Book: Everybody Needs to Eat • Food Chains • Prairies Food Chain • Polar Lands Food Chain • Wetlands Food Chain • Herbivores, Carnivores, and Omnivores ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Food Chains	
(13) Organisms and environments. The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:		
TEKS.Science.1.13.A identify the external structures of different animals and compare how those structures help different animals live, move, and meet basic needs for survival.	• Books: Animal Teeth; Animal Bodies; Animal Tracks; Everybody Needs to Eat • Animal Behavior • Animal Bodies • Herbivores, Carnivores, and Omnivores • Animals Need Water • Plants and Animals Need Air ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Animal Bodies	• Animals Need Water
TEKS.Science.1.13.B record observations of and describe basic life cycles of animals, including a bird, a mammal, and a fish.	• Song: Fish • Birds • Mammals • Fish • Animal Life Cycles and Growth ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Life Cycles	• Butterfly Life Cycle • Frog Life Cycle • Amphibians • Metamorphosis
TEKS.Science.1.13.C compare ways that young animals resemble their parents.	• Books: George and Jack; A Seed Grows; Mine • Mammals • Science Observation: From Egg to Chick ***Classroom Playlists*** • TEKS: 1st Grade: Organisms and Environments: Traits	• Traits

Texas Standards	Waterford Digital Activities	Waterford Resources
Grade 2		
Knowledge and Skills		
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:		
TEKS.Science.2.1.A ask questions and define problems based on observations or information from text, phenomena, models, or investigations;	• Song: Inventing • Books: Inventions All Around; I Want to Be a Scientist Like Wilbur and Orville Wright • Inventions	• Recycling • Simple Machines • How It Works
TEKS.Science.2.1.B use scientific practices to plan and conduct simple descriptive investigations and use engineering practices to design solutions to problems;	• Song: Inventing • Books: Inventions All Around; I Want to Be a Scientist Like Wilbur and Orville Wright • Inventions	• Recycling • Simple Machines • How It Works
TEKS.Science.2.1.C identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency-approved safety standards;	• Songs: Storms; Sun Blues • Lightning Safety • Science Investigation	• Emergency Preparedness for Kids • Fire Safety Activity for Kids • Thunder and Lightning • Smell Labels (Safe Smelling) • Good Playing Rules Rebus
TEKS.Science.2.1.D use tools, including hand lenses, goggles, heat-resistant gloves, trays, cups, bowls, beakers, notebooks, stream tables, soil, sand, gravel, flowering plants, student thermometer, demonstration thermometer, rain gauge, flashlights, ramps, balls, spinning tops, drums, tuning forks, sandpaper, wax paper, items that are flexible, non-flexible items, magnets, hot plate, aluminum foil, Sun-Moon-Earth model, and frog and butterfly life cycle models to observe, measure, test, and compare;	• Songs: The Scientific Method; Precipitation • Science Investigation • Science Tools • Measurement Tools • Weather Tools • Sun, Moon, and Stars • Plant Life Cycle and Growth • Animal Life Cycle and Growth • Science Observation: From Egg to Chick	

Texas Standards	Waterford Digital Activities	Waterford Resources
(1) Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to *continued*:		
TEKS.Science.2.1.E collect observations and measurements as evidence.	• Water • Fossils • Science Observation: From Egg to Chick • Calendar/Graph Weather	
TEKS.Science.2.1.F record and organize data using pictures, numbers, words, symbols, and simple graphs.	• Song: Graphing • Graphs • Picture Graphs • Bar Graphs • Calendar/Graph Weather • Science Observation: From Egg to Chick	
TEKS.Science.2.1.G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Water Cycle • Experiments: Air; Density; Sound; Buoyancy; Pollution • Inventions	
(2) Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:		
TEKS.Science.2.2.A identify basic advantages and limitations of models such as their size, properties, and materials.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	
TEKS.Science.2.2.B analyze data by identifying significant features and patterns.	• Book: Moon Song • Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	

Texas Standards	Waterford Digital Activities	Waterford Resources
(2) Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to *continued*:		
TEKS.Science.2.2.C use mathematical concepts to compare two objects with common attributes; and	• Song: Big Small • Water Sources • Big and Little • Tall and Short • Heavy and Light • Large Small Toys • Big Little Animals	
TEKS.Science.2.2.D evaluate a design or object using criteria to determine if it works as intended.	• Song: Inventing • Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Inventions	
(3) Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:		
TEKS.Science.2.3.A develop explanations and propose solutions supported by data and models;	• Books: How Did the Chicken Cross the Road?; Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.2.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats; and	• Song: The Scientific Method • Science Investigation	
TEKS.Science.2.3.C listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	• Song: The Scientific Method • Science Investigation	• Speaking and Listening

Texas Standards	Waterford Digital Activities	Waterford Resources
(4) Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation for society. The student is expected to:		
TEKS.Science.2.4.A explain how science or an innovation can help others; and	• Book: Inventions All Around • Simple Machines	• Simple Machines • How It Works
TEKS.Science.2.4.B identify scientists and engineers such as Alexander Graham Bell, Marie Daly, Mario Molina, and Jane Goodall and explore what different scientists and engineers do.	• Books: I Want to Be a Scientist Like: Jane Goodall; George Washington Carver; Wilbur and Orville Wright; Antoni van Leeuwenhoek; Alexander von Humboldt; Joanne Simpson; Thomas Edison; Louis Pasteur; Marie Curie; Stephen Hawking; Isaac Newton	
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:		
TEKS.Science.2.5.A identify and use patterns to describe phenomena or design solutions.	• Song: Seasons • Books: Moon Song; The Four Seasons; That's What I Like: A Book About Seasons • Moon Patterns • Calendar/Graph Weather • Weather Patterns • Sun, Moon, and Earth	
TEKS.Science.2.5.B investigate and predict cause-and-effect relationships in science.	• Song: Seasons • Books: The Four Seasons; That's What I Like: A Book About Seasons • Calendar/Graph Weather • Sun, Moon, and Earth • Plants Need Water • Healthy Plants' Needs • Food Chains • Care of Earth	• Evaporation • Light for Plants • Water for Plants
TEKS.Science.2.5.C measure and describe the properties of objects in terms of size and quantity.	• Song: Savanna Size • Big and Little • Large Small Toys • Tall and Short • Heavy and Light • More than, Fewer than	• Dinosaur Size

Texas Standards	Waterford Digital Activities	Waterford Resources
(5) Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to *continued*:		
TEKS.Science.2.5.D examine the parts of a whole to define or model a system.	• Edible Plant Parts • Food Chains • Functions of Plant Parts	• Plant Parts • Body Part Cards • Insect Parts Poster
TEKS.Science.2.5.E identify forms of energy and properties of matter.	• Songs: Matter; Precipitation; Solid or Liquid • Book: Pancakes Matter • Sun • Matter • Solid and Liquid • Solid, Liquid, Gas • States of Water • Heat Changes Water	• Temperature and Melting • Solids, Liquids, and Gases • Solid and Liquid • States of Water
TEKS.Science.2.5.F describe the relationship between structure and function of objects, organisms, and systems.	• Animal Groups • Teeth • Functions of Plant Parts	
TEKS.Science.2.5.G describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Weather • Spring • Summer • Fall • Winter • Animal Behavior • Animal Bodies • Animal Adaptations and Human Tools	• Animals • How Animals Survive

Texas Standards	Waterford Digital Activities	Waterford Resources
(6) Matter and its properties. The student knows that matter has physical properties that determine how it is described, classified, and used. The student is expected to:		
TEKS.Science.2.6.A classify matter by observable physical properties, including texture, flexibility, and relative temperature, and identify whether a material is a solid or liquid.	• Songs: Marmot Shapes; Shapes, Shapes, Shapes; All Sorts of Laundry; Squirrel's Zoo Colors; Matter, Solid or Liquid • Book: Buttons, Buttons • Sort • Touch • Sight • Materials • Sun • Matter • Solid and Liquid • Solid, Liquid, Gas ***Classroom Playlists*** • TEKS: 2nd Grade: Matter: Solid or Liquid • TEKS: 2nd Grade: Matter: Properties	• Texture Sort
TEKS.Science.2.6.B conduct a descriptive investigation to explain how physical properties can be changed through processes such as cutting, folding, sanding, melting, or freezing.	• Book: Warm Soup for Dedushka • Changes in Matter • Movement of Heat • States of Water • Materials ***Classroom Playlists*** • TEKS: 2nd Grade: Matter: Changes in Matter	
TEKS.Science.2.6.C demonstrate that small units such as building blocks can be combined or reassembled to form new objects for different purposes and explain the materials chosen based on their physical properties.	• Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Geoboard • Tangrams	

Texas Standards	Waterford Digital Activities	Waterford Resources
(7) Force, motion, and energy. The student knows that forces cause changes in motion and position in everyday life. The student is expected to:		
TEKS.Science.2.7.A explain how objects push on each other and may change shape when they touch or collide; and	• Song: Push and Pull • Book: Mr. Mario's Neighborhood • Push and Pull ***Classroom Playlists*** • TEKS: Force, Motion, and Energy: Push and Pull	• How It Works
TEKS.Science.2.7.B plan and conduct a descriptive investigation to demonstrate how the strength of a push and pull changes an object's motion.	• Song: Push and Pull • Book: Mr. Mario's Neighborhood • Push and Pull ***Classroom Playlists*** • TEKS: Force, Motion, and Energy: Push and Pull	• How It Works
(8) Force, motion, and energy. The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:		
TEKS.Science.2.8.A demonstrate and explain that sound is made by vibrating matter and that vibrations can be caused by a variety of means, including sound;	• Song: Sound • Book: What Sounds Say • Sound Waves ***Classroom Playlists*** • TEKS: 2nd Grade: Force, Motion, and Energy: Sound Waves	• Sound
TEKS.Science.2.8.B explain how different levels of sound are used in everyday life such as a whisper in a classroom or a fire alarm; and	• Book: Movin' to the Music Time ***Classroom Playlists*** • TEKS: 2nd Grade: Force, Motion, and Energy: Pitch and Volume	• Sound
TEKS.Science.2.8.C design and build a device using tools and materials that uses 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 • Sound Experiment	

Texas Standards	Waterford Digital Activities	Waterford Resources
(9) Earth and space. The student knows that there are recognizable patterns in the natural world and among objects in the sky. The student is expected to:		
TEKS.Science.2.9.A describe the Sun as a star that provides light and heat and explain that the Moon reflects the Sun's light; and	• Songs: The Moon; Sun Blues • Books: Star Pictures; Moon Song • Sun • Moon • Constellations • Astronomy ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Sun and Moon	• The Sky Above Us • The Moon • Sun, Moon, and Earth
TEKS.Science.2.9.B observe objects in the sky using tools such as a telescope and compare how objects in the sky are more visible and can appear different with a tool than with an unaided eye.	• Songs: The Moon; Sun Blues • Books: Star Pictures; Moon Song • Sun • Moon • Constellations • Astronomy ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Constellations	• The Sky Above Us • The Moon • Sun, Moon, and Earth
(10) Earth and space. The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to:		
TEKS.Science.2.10.A investigate and describe how wind and water move soil and rock particles across the Earth's surface such as wind blowing sand into dunes on a beach or a river carrying rocks as it flows.	• Book: Can You Guess? • Air • Care of Air • Air Experiment • Rock Cycle ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Rock Cycle	• Air Movement

Texas Standards	Waterford Digital Activities	Waterford Resources
(10) Earth and space. The student knows that the natural world includes earth materials that can be observed in systems and processes. The student is expected to *continued*:		
TEKS.Science.2.10.B measure, record, and graph weather information, including temperature and precipitation.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Weather • Calendar/Graph Weather • Weather Patterns • Clouds • Spring • Summer • Fall • Winter ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Weather • TEKS: 2nd Grade: Earth and Space: Weather Tools	• Weather • The Weather Around Us • Weather Cards
TEKS.Science.2.10.C investigate different types of severe weather events such as a hurricane, tornado, or flood and explain that some events are more likely than others in a given region.	• Books: Tornado • Ecosystems: Prairie	• Tornado

Texas Standards	Waterford Digital Activities	Waterford Resources
(11) Earth and space. The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:		
TEKS.Science.2.11.A distinguish between natural and manmade resources; and	• Natural Resources ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Natural Resources	• By Nature or By Man? • Is It a Natural Resources? • Natural Resources
TEKS.Science.2.11.B describe how human impact can be limited by making choices to conserve and properly dispose of materials such as reducing use of, reusing, or Recycling paper, plastic, and metal.	• Songs: Conservation; Pollution Rap • Pollution and Recycling • Care of Water • Care of Earth ***Classroom Playlists*** • TEKS: 2nd Grade: Earth and Space: Pollution and Recycling	• Recycling • Our Earth
(12) Organisms and environments. The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to:		
TEKS.Science.2.12.A describe how the physical characteristics of environments, including the amount of rainfall, support plants and animals within an ecosystem.	• Books: Where in the World Would You Go Today?; Your Backyard • Ecosystems • Ecosystems Experiment • Deserts • Mountains • Oceans • Rainforests ***Classroom Playlists*** • TEKS: 2nd Grade: Organisms and Environments: Environments	

Texas Standards	Waterford Digital Activities	Waterford Resources
(12) Organisms and environments. The student knows that living organisms have basic needs that must be met through interactions within their environment. The student is expected to *continued*:		
TEKS.Science.2.12.B create and describe food chains identifying producers and consumers to demonstrate how animals depend on other living things.	• Book: Everybody Needs to Eat • Food Chains • Prairies Food Chain • Polar Lands Food Chain • Wetlands Food Chain • Herbivores, Carnivores, and Omnivores ***Classroom Playlists*** • TEKS: 2nd Grade: Organisms and Environments: Food Chains	
TEKS.Science.2.12.C explain and demonstrate how some plants depend on other living things, wind, or water for pollination and to move their seeds around.	• Song: Plants Are Growing • Books: The Bee's Secret; A Seed Grows; The Old Maple Tree	
(13) Organisms and environments. The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to:		
TEKS.Science.2.13.A identify the roots, stems, leaves, flowers, fruits, and seeds of plants and compare how those structures help different plants meet their basic needs for survival.	• Song: Plants Are Growing • Book: A Seed Grows • Plants • Edible Plant Parts • Functions of Plant Parts • Plant Experiment • Healthy Plants' Needs ***Classroom Playlists*** • TEKS: 2nd Grade: Organisms and Environments: Plants: Identify Parts • TEKS: 2nd Grade: Organisms and Environments: Plants: Function of Parts	• Light for Plants • Plant Parts

Texas Standards	Waterford Digital Activities	Waterford Resources
(13) Organisms and environments. The student knows that organisms have structures and undergo processes that help them interact and survive within their environments. The student is expected to *continued*:		
TEKS.Science.2.13.B record and compare how the structures and behaviors of animals help them find and take in food, water, and air.	• Books: Animal Teeth; Animal Bodies; Animal Tracks; Everybody Needs to Eat • Animal Behavior • Animal Bodies • Herbivores, Carnivores, and Omnivores • Animals Need Water • Plants and Animals Need Air ***Classroom Playlists*** • TEKS: 2nd Grade: Organisms and Environments: Animal Bodies	• Animals Need Water
TEKS.Science.2.13.C record and compare how being part of a group helps animals obtain food, defend themselves, and cope with changes.	• Book: Animal Bodies • Animal Behavior • Animal Bodies	
TEKS.Science.2.13.D investigate and describe some of the unique life cycles of animals where young animals do not resemble their parents, including butterflies and frogs.	• Animal Life Cycle and Growth • Science Observation: From Egg to Chick • Amphibians ***Classroom Playlists*** • TEKS: 2nd Grade: Organisms and Environments: Animal Life Cycles	• Butterfly Life Cycle • Frog Life Cycle • Amphibians • Metamorphosis

Books and Related Activities

Waterford.org

Pre-Math and 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 / Fun 15 / 16 Ants / Counting to 17 / 18 Carrot Stew / 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

Marching Band Counting / Flower Counting / Country 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 Fish to Catch / Fun 15 / 16 Ants / Counting to 17 / 18 Carrot Stew / 19 On the Beach / 20 Fingers and Toes

Basic Math and Science

Math and Science Books

One More Cat / Can You Guess? A Story for Two Voices / 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 / Navajo Beads / Where in the World Would You Go Today? / I Want to Be a Scientist Like Wilbur and Orville Wright

Fluent Math and Science

Math and 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

Research-Driven Development

Waterford is committed to ongoing development based on the latest research findings. Please note that this correlation is accurate as of the date on the cover.

Family Engagement Resources

Waterford.org

Spanish Family Engagement Resources

All Waterford books and many of the resources available to families at →mentor.waterford.org can be found in Spanish or with Spanish support.

Songs

Beginning Math Songs

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

Nursery Songs and Rhymes

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

Beginning Reading Songs

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

Many of these songs are available on the →Waterford.org YouTube channel.

Weekly Homelink Newsletters

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

Math Homelink Newsletters

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

Science Homelink Newsletters

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

Reading Homelink Newsletters

Alphabet Knowledge Comprehension and Vocabulary

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

Readiness Skills Letters

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

Phonological Awareness Letters

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

Waterford Mentor

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