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Alignment
November 2025

100%
Aligned

Waterford Early Learning: Math & Science

Montana Mathematics (2026) & Science (2017) Content Standards

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

Overview

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This document provides a detailed alignment of Waterford Early Learning to Montana Mathematics (2026) & Science (2017) Content Standards.

Alignment Description

This document aligns Montana Mathematics (2026) & Science (2017) Content Standards 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.

Table of Contents

Montana Standards	Waterford Digital Activities	Waterford Resources
Mathematics		
Kindergarten		
Counting and Cardinality		
MT.K.CC.1: Flexibly count to 100 by ones and by tens.	• Story Problem Strategies • Skip Count by 10 • Skip Counting	• Count to 100 by Ones and Tens
MT.K.CC.2: Count beginning from a given number within the known sequence.	• Order Numbers • Counting Puzzle • Dot-to-dot • Count On • Number Recognition and Sense • Number Chart • Number Line • Counting On	• Count Forward • Count to 100 by Ones and Tens
MT.K.CC.3: Write numbers from 0-20 and represent a number of objects with a written numeral 0-20.	• Counting Songs (See titles at end of document.) • Number Instruction	• Write Numbers 0-20
MT.K.CC.4: Understand the relationship between numbers and quantities and connect counting to cardinality by recognizing that each successive number name refers to a quantity that is one larger within a normal counting sequence.	• Counting Songs (See titles at end of document.) • Number Instruction • Order Numbers • One-to-one Correspondence • Make and Count Groups	• Object Counting Basics
MT.K.CC.5: Count to answer "how many?" in a variety of arrangements and, given a number, produce a set within 20.	• Counting Songs • Number Songs (See titles at end of document.) • Make and Count Groups • Number Instruction • One-to-one Correspondence	• How Many?

Montana Standards	Waterford Digital Activities	Waterford Resources
Counting and Cardinality *continued*		
MT.K.CC.6: Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.	• Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than • Make and Count Groups	• Greater, Less, or Equal
MT.K.CC.7: Compare two numbers between 1 and 10 presented as written numerals.	• Song: Greater Than, Less Than • Book: For the Birds • Greater Than, Less Than • More Than, Fewer Than • More Than • Fewer Than	• Compare Two Numbers
MT.K.OA.1: Represent addition and subtraction in multiple ways.	• Songs: Pirates Can Add; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Make and Count Groups • Add Groups • Subtract Groups • Act Out Addition • Act Out Subtraction	• Represent Addition and Subtraction with Objects

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Montana Standards	Waterford Digital Activities	Waterford Resources
Operations and Algebraic Thinking		
MT.K.OA.2: Solve addition and subtraction problems in context within 10. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Songs: Pirates Can Add; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Minuends • Sums • Act Out Addition • Act Out Subtraction	• Addition and Subtraction Word Problems
MT.K.OA.3: Decompose numbers less than or equal to 10 into pairs in multiple ways.	• Make and Count Groups • Add Groups • Subtract Groups • Act Out Subtraction • Make 10	• Decompose Numbers
MT.K.OA.4: For any number from 1 to 9, find the number that makes 10 when added to the given number.	• Make 10 • Missing Addends • Count On • Act Out Addition • Flower Story Problems	• Numbers That Make 10
MT.K.OA.5: Flexibly and accurately add and subtract within 5.	• Songs: Pirates Can Add; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction • Book: Five Delicious Muffins • Add Groups • Subtract Groups • Minuends • Sums • Act Out Addition • Act Out Subtraction	

Montana Standards	Waterford Digital Activities	Waterford Resources
Operations and Algebraic Thinking *continued*		
MT.K.OA.6: Recognize the characteristics of the commutative property in addition.	• Addition Patterns • Commutative Property of Addition • Kingdom of Counting • Story Problem Strategies	
Numbers and Operations in Base Ten		
MT.K.NBT.1: Compose and decompose numbers from 11-19 into ten ones and further ones in multiple ways and record each composition or decomposition by a drawing or an equation.	• Place Value	• Tens and Ones
Measurement and Data		
MT.K.MD.1: Describe several attributes of a single object.	• Song: Measuring Plants • Length	• Measurable Attributes
MT.K.MD.2: Directly compare two objects with a measurable attribute in common using comparative language.	• Songs: Savanna Size, Measuring Plants • Capacity • Length • Order Size • Big and Little • Tall and Short • Heavy and Light • Size	• Comparing Objects
MT.K.MD.3: Classify, count, and sort objects into categories. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Songs: Same and Different; All Sorts of Laundry • Book: Buttons, Buttons • Sort • Make and Count Groups	• Classifying Objects

Montana Standards	Waterford Digital Activities	Waterford Resources
Measurement and Data *continued*		
MT.K.MD.4: Describe attributes and identify the names of coins.	• Money	
MT.K.MD.5: Explain time in days, months, years, and seasons.	• Days of the Week • Months of the Year	
Geometry		
MT.K.G.1: Describe the relative positions of objects in their environment. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Songs: Position Cat; Kites; Get Over the Bugs; Shapes, Shapes, Shapes • Books: The Shape of Things; Imagination Shapes; Up in the Air • Position • Over, Under, Above, Below • Over, Under, and Through • Inside, Outside, Between • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Simple Shapes • Solid Shapes • World Shapes • Above, Below, Next to, On	• Describing Objects
MT.K.G.2: Correctly name shapes regardless of their orientations or overall size.	• Songs: Kites; Shapes, Shapes, Shapes • Books: The Shape of Things; Imagination Shapes • Circle, Square, Triangle, Rectangle • Star, Semicircle, Octagon, Oval, Rhombus • Simple Shapes • Solid Shapes • World Shapes	• Shape Recognition

Montana Standards	Waterford Digital Activities	Waterford Resources
Geometry *continued*		
MT.K.G.3: Identify shapes are two-dimensional or three-dimensional.	• Solid Shapes • Space Shapes • Simple Shapes	• Two-dimensional Shapes
MT.K.G.4: Analyze and compare two- and three-dimensional shapes using informal language and other attributes.	• Song: Corners and Sides • Simple Shapes • Solid Shapes • Space Shapes • Congruence • Tangrams • Similar Figures	• Compare Shapes
MT.K.G.5: Model shapes in the environment. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Geoboard • Tangrams	• Model Shapes
MT.K.G.6: Compose simple shapes to form larger shapes.	• Geoboard • Tangrams	• Form Larger Shapes

Montana Standards	Waterford Digital Activities	Waterford Resources
Grade 1		
Operations and Algebraic Thinking		
MT.1.OA.1: Use addition and subtraction within 20 to solve of all types. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Songs: Fact Families; Doubles • Book: Facts About Families • Addition and Subtraction Fact Families • Addition and Subtraction Relationship	• Word Problems Using Subtraction Within 20
MT.1.OA.2: Solve problems in context that call for addition of three whole numbers with a sum less than or equal to 20 in context of all types. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Add 3 One-digit Numbers	• Word Problems Adding 3 Numbers
MT.1.OA.3: Flexibly compose and decompose numbers to add and subtract.	• Addition and Subtraction Relationship • Addition and Subtraction Fact Families • Subtraction Patterns • Commutative Property of Addition	• Strategies to Add and Subtract
MT.1.OA.4: Understand subtraction as an unknown-addend problem.	• Missing Addends • Subtraction Patterns • Addition and Subtraction Fact Families	• Understand Subtraction as an Unknown Addend Problem
MT.1.OA.5: Relate counting to addition and subtraction.	• Song: Counting On • Books: Circus 20; Painting By Number • Skip Count by 2 • Count On • Make and Count Groups • Add Groups • Subtract Groups	• Relate Counting to Addition and Subtraction

Montana Standards	Waterford Digital Activities	Waterford Resources
Operations and Algebraic Thinking *continued*		
MT.1.OA.6: Flexibly, accurately, and efficiently add and subtract within 10.	• Songs: Fact Families; Counting On • Books: Facts about Families • Addition and Subtraction Fact Families • Addition Sentences • Subtraction Sentences • Commutative Property of Addition • Addition and Subtraction Relationship • Missing Addends • Missing Minuends and Subtrahends • Add 3 One-digit Numbers • Subtraction Patterns	• Add and Subtract Within 20
MT.1.OA.7: Use multiple strategies to add and subtract within 20.	• Songs: Fact Families; Counting On • Books: Facts about Families • Addition and Subtraction Fact Families • Addition Sentences • Subtraction Sentences • Commutative Property of Addition • Addition and Subtraction Relationship • Missing Addends • Missing Minuends and Subtrahends • Add 3 One-digit Numbers • Subtraction Patterns	• Add and Subtract Within 20
MT.1.OA.8: Understand the meaning of the equal sign and determine if equations are true or false.	• Song: Fact Families • Book: Facts About Families • Addition and Subtraction Fact Families • Addition and Subtraction Relationship • Commutative Property of Addition • Addition Sentences • Subtraction Sentences • Greater Than, Less Than • More Than, Fewer Than	• Equal Sign

Montana Standards	Waterford Digital Activities	Waterford Resources
Operations and Algebraic Thinking *continued*		
MT.1.OA.9: Determine the unknown number in an addition or subtraction equation relating to three numbers.	• Addition Sentences • Subtraction Sentences • Addition and Subtraction Fact Families • Missing Addends • Missing Minuends and Subtrahends	• Painting by Number
Numbers and Operations in Base Ten		
MT.1.NBT.1: Flexibly count, read, write, and represent numbers to 120.	• Song: Counting On • Count On • Number Chart	• Count to 120
MT.1.NBT.2: Understand that ten is a unit composed of ten ones and that a two-digit number represents tens and ones.	• Song: Place Value • Place Value of 2-digit Numbers • Expanded Notation • Add with Manipulatives	• Tens as a Bundle of Ones
MT.1.NBT.3: Compare two two-digit numbers using comparison symbols >, =, and <.	• Place Value • Greater Than, Less Than (2-digit Numbers)	• Compare Two-digit Numbers

Montana Standards	Waterford Digital Activities	Waterford Resources
MT.1.NBT.4: Build a foundation for addition within 100 by:		
MT.1.NBT.4.a: *Build a foundation for addition within 100 by* adding two-digit to one-digit numbers.	• Addition • Add Tens • Add with Manipulatives • Add Vertical Squares • Add with Beads • Addition and Subtraction Relationship • Add with Regrouping Concept • Add 2-digit and 1-digit Numbers with Regrouping • Add 2-digit Numbers without Regrouping • Add 2-digit Numbers with Regrouping	• Adding within 100
MT.1.NBT.4.b: *Build a foundation for addition within 100 by* adding multiples of 10 to two-digit numbers.	• Song: Skip Counting • Book: Navajo Beads • Add • Subtract • Add Tens • Subtract Tens • Skip Count by 10 • Number Chart	• Ten More or Less
Numbers and Operations in Base Ten		
MT.1.NBT.5: Using place value, given a two-digit number, find 10 more or 10 less than the number.	• Song: Skip Counting • Book: Navajo Beads • Add • Subtract • Add Tens • Subtract Tens • Skip Count by 10 • Number Chart	• Ten More or Less

Montana Standards	Waterford Digital Activities	Waterford Resources
Numbers and Operations in Base Ten *continued*		
MT.1.NBT.6: Subtract multiples of 10 from a two-digit number.	• Subtraction • Subtract Tens • Subtraction Patterns • Subtract • Place Value • Addition and Subtraction Relationship • Use Manipulatives	• Subtracting in 10s
Measurement and Data		
MT.1.MD.1: Order three objects by length and compare the lengths of two objects indirectly by using a third object. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Length • Nonstandard Units of Length	• Order by Length
MT.1.MD.2: Express the length of an object as a whole number of length units. Understand that the measurement of an object is the number of same-size length units that span it with no gaps or overlaps.	• Length • Nonstandard Units of Length	• Length Measurement
MT.1.MD.3: Tell and write time in hours and half-hours using analog and digital clocks.	• Song: Clock Hands • Books: Mr. Romano's Secret: A Time Story • Tell Time to the Hour • Tell Time to the Half-Hour	• Hours and Half-hours
MT.1.MD.4: Identify the value of coins.	• Money	

Montana Standards	Waterford Digital Activities	Waterford Resources
MT.1.MD.5: Organize, represent, and interpret data with up to three categories by:		
MT.1.MD.5.a: *Organize, represent, and interpret data with up to three categories by* asking and answering questions about the total number of data points.	• Songs: Tallying; Graphing • Books: Painting by Number; One More Cat; The Booneville Nine • Tally Marks • Graphs • Make a Table	• Data Categorization
MT.1.MD.5.b: *Organize, represent, and interpret data with up to three categories by* identifying how many are in each category.	• Songs: Tallying; Graphing • Books: Painting by Number; One More Cat; The Booneville Nine • Tally Marks • Graphs • Make a Table	• Data Categorization
MT.1.MD.5.c: *Organize, represent, and interpret data with up to three categories by* analyzing differences between categories.	• Songs: Tallying; Graphing • Books: Painting by Number; One More Cat; The Booneville Nine • Tally Marks • Graphs • Make a Table	• Data Categorization

Montana Standards	Waterford Digital Activities	Waterford Resources
Geometry		
MT.1.G.1: Distinguish between defining attributes versus nondefining attributes.	• Songs: Corners and Sides; Kites • Geoboard • Space Shapes	• Attributes
MT.1.G.2: Build and draw shapes to possess defining attributes.	• Song: Kites • Space Shapes • Geoboard • Tangrams	
MT.1.G.3: Compose new shapes using two- and three-dimensional shapes.	• Song: Kites • Space Shapes • Geoboard • Tangrams	
MT.1.G.4: Partition circles and rectangles into two and four equal shares. Describe the shares using the words: halves, fourths, and quarters.	• Label Parts of Fractions • Fractions • Halves and Fourths and Thirds	• Equal Shares

Montana Standards	Waterford Digital Activities	Waterford Resources
Grade 2		
Operations and Algebraic Thinking		
MT.2.OA.1: Use addition and subtraction within 100 to solve one- and two-step problems in context involving all problem types. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Story Problem Strategies	• One- and Two-step Word Problems within 100
MT.2.OA.2: Flexibly, accurately, and efficiently add and subtract within 20 using mental strategies.	• Doubles (1-5) • Doubles • Doubles (6-10) • Mental Math • Speed Games	• Adding and Subtracting within 20
MT.2.OA.3: Determine whether a group of objects, up to 20, has an odd or even number of members.	• Odd Todd and Even Steven	• Odd and Even Recognition
MT.2.OA.4: Use addition to find the total number of objects arranged in rectangular arrays.	• Story Problem Strategies • Multiply Using Arrays • Multiplication	

Montana Standards	Waterford Digital Activities	Waterford Resources
Numbers and Operations in Base Ten		
MT.2.NBT.1: Understand one hundred is a unit composed of ten tens and that three-digit numbers represent amounts of hundreds, tens, and ones.	• Place Value	• Thinking of 100 as a Bundle of Ten 10s
MT.2.NBT.2: Skip-count by 5s, 10s, and 100s.	• Skip Count by 5 • Skip Counting • Story Problem Strategies • Skip Count by 10 • Skip Count	• Counting within 1000
MT.2.NBT.3: Flexibly count, read, write, and represent numbers to 1000.	• Place Value	• Read and Write Numbers to 1000
MT.2.NBT.4: Compare two three-digit numbers using >, =, and < symbols.	• Greater Than, Less Than (3-digit Numbers)	• Less Than, Equal To, or Greater Than
MT.2.NBT.5: Flexibly, accurately, and efficiently add and subtract within 100 using multiple strategies.	• Story Problem Strategies • Doubles (1-5) • Doubles • Mental Math • Speed Games • Problem Solving	• Add and Subtract within 100
MT.2.NBT.6: Add up to four two-digit numbers using multiple strategies.	• Add 2-digit Numbers with Regrouping • Add 2-digit Numbers without Regrouping • Add 3 Two-digit Numbers with Regrouping • Add 3-digit Numbers with Regrouping • Add 1-digit and 2-digit Numbers with Regrouping	• Adding Four 2-digit Numbers

Montana Standards	Waterford Digital Activities	Waterford Resources
Numbers and Operations in Base Ten *continued*		
MT.2.NBT.7: Add and subtract within 1000 using multiple strategies.	• Story Problem Strategies • Subtract 2-digit Numbers with Regrouping • You Be the Teacher • Add 2-digit Numbers with Regrouping • Add 2-digit Numbers without Regrouping • Add 3 Two-digit Numbers with Regrouping • Add 3-digit Numbers with Regrouping • Add 1-digit and 2-digit Numbers with Regrouping	• Add and Subtract within 1000
MT.2.NBT.8: Using place value, add or subtract 10 or 100 from a given number.	• Story Problem Strategies • Make Change • You Be the Teacher	• Explaining Addition and Subtraction Strategies
MT.2.NBT.9: Understand and make connections between different strategies for addition and subtraction.	• Story Problem Strategies • Patterns of 3-digit Numbers • Patterns of 2-digit Numbers • Sequences of 3-digit Numbers	• Explaining Addition and Subtraction Strategies
Measurement and Data		
MT.2.MD.1: Measure the length of an object by selecting and using appropriate tools.		• Measurement Tools
MT.2.MD.2: Understand the relationship between unit sizes and number of units by measuring a single object using two different units of common measurement.	• Measuring Plants • Standard Units of Length • Story Problem Strategies • Problem Solving	• Measuring the Same Object Two Ways
MT.2.MD.3: Estimate lengths using units of common measurement.		• Estimating Lengths

Montana Standards	Waterford Digital Activities	Waterford Resources
Measurement and Data *continued*		
MT.2.MD.4: Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	• Length • Standard Units of Length	• Measure Length
MT.2.MD.5: Use addition and subtraction within 100 to solve problems in context involving lengths that are given in the same units. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• How Long Is a Minute? • Weight • Capacity • Compare Minutes to Hours	• Add and Subtract Word Problems within 100
MT.2.MD.6: Represent whole numbers as lengths from 0 and represent sums and differences within 100 on a number line.	• Number Line	
MT.2.MD.7: Tell and write time from analog and digital clocks to the nearest five minutes using a.m. and p.m.	• Songs: Telling Time; Clock Hands • Tell Time • Tell Time to Five Minutes • Tell Time to the Quarter Hour • Tell Time to the Minute • Tell Time to the Hour • Tell Time to the Half-hour	• Tell and Write Time

Montana Standards	Waterford Digital Activities	Waterford Resources
Measurement and Data *continued*		
MT.2.MD.8: Solve problems in context involving dollar bills, quarters, dimes, nickels, and pennies using $ and ¢ symbols appropriately.	• Songs: Money; Save Your Pennies • Book: Bugs For Sale • Coin Identification • Coin Value • Quarters • Count Dimes, Nickels, and Pennies • Count Quarters, Dimes, Nickels, and Pennies • Count Nickels and Pennies or Dimes and Pennies • Make Change • Count Coins • Count Bills and Coins • Equivalent Sums of Money	• Solve Money Word Problems • Coin Identification
MT.2.MD.9: Generate measurement data and present the data in multiple ways. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.		• Generate Measurement Data
MT.2.MD.10: Organize, represent, and interpret data with up to four categories. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities.	• Song: Graphing • Graphing • Bar Graphs • Picture Graphs • Use Graphs and Tables	• Graphs
MT.2.MD.11: Solve addition and subtraction problems of all types using data presented.	• Picture Graphs • Bar Graphs • Story Problem Strategies	

Montana Standards	Waterford Digital Activities	Waterford Resources
Geometry		
MT.2.G.1: Recognize and draw shapes having specified attributes.	• Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites • Book: The Shape of Things • Space Shapes • World Shapes • Geoboard	• Draw Shapes
MT.2.G.2: Partition a rectangle into rows and columns of same-size squares and find the total number.	• Song: Fractions • Fractions of Regions	
MT.2.G.3: Partition circles and rectangles into equal shares, recognize that equal shares need not have the same shape, and express the shares in two-halves, three-thirds, and four-fourths.	• Fractions of Regions • Fractions of Groups • Fraction of Regions • Story Problem Strategies • You Be the Teacher • Fractions	• Fractions

Montana Standards	Waterford Digital Activities	Waterford Resources
Science		
Kindergarten		
Physical Science: K-PS2: Motion and Stability: Forces and Interactions		
K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	• Song: Push and Pull • Book: Mr. Mario's Neighborhood • Push and Pull	• How It Works
K-PS2-2 Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.	• Song: Push and Pull • Push and Pull	
K-PS3 Energy		
K-PS3-1: Construct an explanation based on observations of the effect of sunlight on Earth's surface.	• Songs: Water; Plants Are Growing; Sun Blues • Sun • Water • Rocks	
PS3-2. Use tools and materials to design and build a structure to reduce the warming effect of sunlight on an area.	Waterford encourages everyone to have writing, drawing, and art materials available for children's creations.	

Montana Standards	Waterford Digital Activities	Waterford Resources
Life Science: K-LS1 From Molecules to Organisms: Structures and Processes		
K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.	• Songs: Water; Food From Plants • Books: Mela's Water Pot; Everybody Needs to Eat • Sun • Plants • Water • Plants and Animals Need Air • Healthy Plants' Needs	• Water for Plants • Green and Growing
Earth and Space Science: K-ESS2 Earth's Systems		
K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.	• Books: Winter Snoozers; Birds at my House; The Old Maple Tree; Turtle's Pond	
K-ESS3-1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.	• Song: Four Ecosystems • Book: Where in the World Would You Go Today? • Oceans • Mountains • Deserts • Rainforests	• Our Earth
K-ESS3-3. Communicate ideas about the impact of humans on the land, water, air, and/or other living things in the local environment.	• Songs: Conservation; Pollution Rap • Pollution and Recycling • Care of Water • Care of Earth	• Recycling • Our Earth

Montana Standards	Waterford Digital Activities	Waterford Resources
K-ESS2 Earth's Systems *continued*		
K-ESS2-1. Use and share observations of local weather conditions to describe patterns over time.	• Song: Seasons • Book: That's What I Like: A Book About Seasons • Weather • Calendar/Graph Weather • Weather Patterns • Clouds • Spring • Summer • Fall • Winter	• Weather • The Weather Around Us • Weather Cards
K-ESS3-2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to weather.	• Songs: Precipitation; Storms • Book: Whatever the Weather • Weather Tools • Calendar/Graph Weather	
Grade 1		
Physical Science: 1-PS4 Waves and Their Applications in Technologies for Information Transfer		
1-PS4-1. Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	• Song: Sound • Book: What Sounds Say • Sound Waves	• Sound
1-PS4-2. Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated.	• Books: My Family Campout; Lightning Bugs • Light Properties • Properties of Light	
1-PS4-3. Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.	• Book: My Family Campout • Light Properties • Properties of Light • Light Experiment	

Montana Standards	Waterford Digital Activities	Waterford Resources
Physical Science: 1-PS4 Waves and Their Applications in Technologies for Information Transfer *continued*		
1-PS4-4. Design a solution or build a device that facilitates communication over distance using light or sound.	• Song: Inventing • Books: I Want to Be a Scientist Like Thomas Edison; Inventions All Around	
Life Science: 1-LS1 From Molecules to Organisms: Structures and Processes		
1-LS1-1. Use materials to design a solution to a human problem by mimicking plant and animal structures and functions that help them survive, grow, and meet their needs.	• Books: I Wish I Had Ears Like a Bat; Animal Bodies; Fawn Eyes • Deserts	
1-LS1-2. Use information from print and other media to identify patterns in behavior of parents and offspring that help offspring survive.	• Song: Animal Bodies • Animal Behavior • Animal Bodies	
1-LS3-1. Make an evidence-based explanation of how young plants and animals are like, but not exactly like, their parents.	• Books: George and Jack; A Seed Grows • Build Knowledge: Mine	• Traits
Earth and Space Science: 1-ESS1 Earth's Place in the Universe		
1-ESS1-1. Use observations of the sun, moon, and stars to describe patterns that can be predicted.	• Songs: The Moon; Sun Blues • Books: Moon Song; Star Pictures; My Family Campout • Sun • Moon • Constellations	• The Moon • The Sky Above Us
1-ESS1-2. Make observations at different times of year to relate the amount of daylight to the time of year.	• Sun • Spring • Summer • Fall • Winter	

Montana Standards	Waterford Digital Activities	Waterford Resources
Grade 2		
Physical Science: 2-PS1 Matter and Its Interactions		
2-PS1-1. Plan and conduct an investigation to describe and classify various materials by their observable properties.	• Book: Warm Soup for Dedushka • Changes in Matter • Movement of Heat • States of Water • Materials	
2-PS1-2. Conduct an investigation and analyze data to determine which materials have the properties best suited for an intended purpose.	• Book: Warm Soup for Dedushka • Heat Movement • Movement of Heat • Heat Experiment	
2-PS1-3. Make observations to construct an evidence-based claim of how an object made of a small set of pieces can be disassembled and made into a new object.	• Book: I Want to Be a Scientist Like Wilbur and Orville Wright • Geoboard • Tangrams	
2-PS1-4. Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.	• Books: Warm Soup for Dedushka; Pancakes Matter • Changes in Matter • Movement of Heat	
Life Science: 2-LS2 Ecosystems: Interactions, Energy, and Dynamics		
2-LS2-1. Plan and conduct a cause and effect investigation to determine if plants need sunlight and water to grow.	• Song: Plants Are Growing • Sun • Water • Plant Experiment • Healthy Plants' Needs	• Light for Plants
2-LS2-2. Develop a simple model that mimics the structure and function of an animal in dispersing seeds or pollinating plants.	• Books: The Bee's Secret; The Old Maple Tree	

Montana Standards	Waterford Digital Activities	Waterford Resources
2-LS2 Ecosystems: Interactions, Energy, and Dynamics *continued*		
2-LS4-1. Make observations of plants and animals to compare and contrast the diversity of life in different habitats.	• Songs: Animal Bodies; Four Ecosystems • Books: Animal Bodies; Where in the World Would You Go Today? • Ecosystems • Animal Bodies • Animal Behavior	• Places on Earth
Earth and Space Science: 2-ESS1 Earth's Place in the Universe		
2-ESS1-1. Use information from several sources to provide evidence that Earth events can occur quickly or slowly.	• Songs: The Four Seasons; Rock Cycle • Books: That's What I Like: A Book About Seasons; Whatever the Weather; Fossils Under Our Feet • Rock Cycle • Fossils • Spring • Summer • Fall • Winter • Water	• Rocks
2-ESS2-1. Construct explanations to compare multiple physical and naturally built designs which impact wind or water's effect on the shape of the land.	Waterford encourages everyone to have writing, drawing, and art materials available for children's creations.	
2-ESS2-2. Develop models to represent the shapes and kinds of land and bodies of water in an area.	• Songs: Water; Precipitation; Water Is All Around • Water Sources • Water • Water Cycle • Care of Water • Oceans	• Places on Earth

Montana Standards	Waterford Digital Activities	Waterford Resources
2-ESS2-3. Obtain information to identify where water is found on Earth and that water can be solid, liquid, or gas.	• Songs: Water; Uses of Water; Precipitation; Water Is All Around • Water Sources • Water • Water Cycle • Care of Water • States of Water • Heat Changes Water	

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 →family.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 Family

***Waterford Family** 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 Family is available online and in the Waterford Family app (for iOS and Android).*