

CURRICULUM *Correlation*

*Waterford Reading
Academy:
Math & Science*

100%

*Pennsylvania
Academic
Standards for
Mathematics
2014 & Science
2022*

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

This document provides a detailed correlation of **WATERFORD READING ACADEMY** *to* **PENNSYLVANIA ACADEMIC STANDARDS FOR MATHEMATICS 2014 & SCIENCE 2022**

CORRELATION DESCRIPTION

This document aligns Pennsylvania Academic Standards for Mathematics 2014 & Science 2022 to Waterford.org's digital activities and supporting resources.

Waterford Digital Resources

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

MATHEMATICS.....	1
KINDERGARTEN.....	1
2.1 Numbers and Operations	1
2.2 Algebraic Concepts.....	2
2.3 Geometry.....	2
2.4 Measurement, Data, and Probability	2
GRADE 1.....	3
2.1 Numbers and Operations	3
2.2 Algebraic Concepts.....	3
2.3 Geometry.....	4
2.4 Measurement, Data, and Probability	4
GRADE 2.....	5
2.1 Numbers and Operations	5
2.2 Algebraic Concepts.....	6
2.3 Geometry.....	6
2.4 Measurement, Data, and Probability	7

SCIENCE.....	8
KINDERGARTEN.....	8
Earth and Space Sciences	8
Life Science.....	9
Physical Science	9
GRADE 1.....	10
Earth and Space Sciences	10
Life Science.....	10
Physical Science	11
GRADE 2.....	11
Earth and Space Sciences	11
Life Science.....	12
Physical Science	13
WATERFORD BOOKS AND RELATED ACTIVITIES	14
WATERFORD FAMILY ENGAGEMENT RESOURCES	15

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
MATHEMATICS		
KINDERGARTEN		
2.1 Numbers and Operations		
A. Counting and Cardinality		
CC.2.1.K.A.1 Know number names and write and recite the count sequence.	- Counting Songs - Number Songs - Math Books - Number Instruction - Number Counting	Write numbers 0-20
CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects	- Counting Songs - Number Songs - Number Counting - Order Numbers - One-to-one Correspondence - Make and Count Groups - Number Instruction	Object Counting Basics
CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities.	- Song: Greater Than, Less Than - Book: For the Birds - Greater Than, Less Than - More Than, Fewer Than - More Than - Fewer Than	Greater, Less, or Equal
B. Numbers and Operations in Base Ten		
CC.2.1.K.B.1 Use place value to compose and decompose numbers within 19.	Place Value	Tens and Ones

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
2.2 Algebraic Concepts		
A. Operations and Algebraic Thinking		
CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10.	- Songs: Bee Happy Addition; On the Bayou; Bakery Subtraction; Subtract Those Cars; Circus Subtraction - Book: Five Delicious Muffins - Add Groups - Subtract Groups - Minuends - Sums - Act Out Addition - Act Out Subtraction	Addition and Subtraction Word Problems
2.3 Geometry		
A. Geometry		
CC.2.3.K.A.1 Identify and describe two- and three-dimensional shapes.	- 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	Two-dimensional Shapes
CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes.	- Song: Corners and Sides - Simple Shapes - Solid Shapes - Space Shapes - Tangrams	Compare Shapes
2.4 Measurement, Data, and Probability		
A. Measurement and Data		
CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects.	- Song: Measuring Plants - Length - Capacity - Weight	Measurable Attributes
CC.2.4.K.A.4 Classify objects and count the number of objects in each category	- Songs: Same and Different; All Sorts of Laundry - Book: Buttons, Buttons - Sort - Make and Count Groups	Classifying Objects

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
GRADE 1		
2.1 Numbers and Operations		
B. Numbers and Operations in Base Ten		
CC.2.1.1.B.1 Extend the counting sequence to read and write numerals to represent objects.	- Counting Songs - Number Songs - Make and Count Groups - Number Counting - Number Instruction	Count to 120
CC.2.1.1.B.2 Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers.	- Place Value - Greater Than, Less Than (2-digit Numbers)	Compare Two-digit Numbers
CC.2.1.1.B.3 Use place-value concepts and properties of operations to add and subtract within 100.	- 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
2.2 Algebraic Concepts		
A. Operations and Algebraic Thinking		
CC.2.2.1.A.1 Represent and solve problems involving addition and subtraction within 20	- Songs: Fact Families; Counting On - Books: Facts about Families; Circus 20; Painting by Number - 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

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
A. Operations and Algebraic Thinking <i>continued</i>		
CC.2.2.1.A.2 Understand and apply properties of operations and the relationship between addition and subtraction	- Songs: Fact Families; Counting On - Book: Facts about Families - Addition and Subtraction Fact Families - Addition Sentences - Subtraction Sentences - Commutative Property of Addition - Addition and Subtraction Relationship - Missing Addends - Missing Minuends and Subtrahends - Subtraction Patterns	Relate Counting to Addition and Subtraction
2.3 Geometry		
A. Geometry		
CC.2.3.1.A.1 Compose and distinguish between two- and three-dimensional shapes based on their attributes.	- Song: Kites - Space Shapes - Geoboard - Tangrams	Attributes
CC.2.3.1.A.2 Use the understanding of fractions to partition shapes into halves and quarters.	- Song: Fractions - Books: Halves and Fourths and Thirds; Half For You and Half For Me - Equal-part Fractions - Label Parts of Fractions	Equal Shares
2.4 Measurement, Data, and Probability		
A. Measurement and Data		
CC.2.4.1.A.1 Order lengths and measure them both indirectly and by repeating length units	- Length - Nonstandard Units of Length	Order by Length
CC.2.4.1.A.2 Tell and write time to the nearest half hour using both analog and digital clocks.	- Song: Clock Hands - Books: Mr. Romano's Secret: A Time Story; How Long Is a Minute? - Tell Time to the Hour - Tell Time to the Half-Hour	Hours and Half-hours

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
A. Measurement and Data <i>continued</i>		
CC.2.4.1.A.4 Represent and interpret data using tables/charts.	- Songs: Tallying; Graphing - Books: Painting by Number; One More Cat; The Booneville Nine - Tally Marks - Graphs - Make a Table	Data Categorization
GRADE 2		
2.1 Numbers and Operations		
B. Numbers and Operations in Base Ten		
CC.2.1.2.B.1 Use place-value concepts to represent amounts of tens and ones and to compare three digit number	- Song: Place Value - Greater Than, Less Than (3-digit Numbers) - Place Value - Place Value of 3-digit Numbers	Less Than, Equal To, or Greater Than
CC.2.1.2.B.2 Use place-value concepts to read, write, and skip count to 1000.	- Songs: Skip Counting; Place Value - Book: Jump Rope Rhymes - Skip Count - Skip Count by 10 - Skip Count by 5 - Number Sequences and Patterns - Place Value - Number Chart	Counting within 1000 Read and Write Numbers to 1000
CC.2.1.2.B.3 Use place-value understanding and properties of operations to add and subtract within 1000.	- Place Value - Addition and Subtraction Relationship - Commutative Properties of Addition - Addition - Subtraction - Add without Regrouping - Add with Regrouping - Subtract without regrouping - Subtract with Regrouping	Add and Subtract Within 100

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
2.2 Algebraic Concepts		
A. Operations and Algebraic Thinking		
CC.2.2.2.A.1 Represent and solve problems involving addition and subtraction within 100	- Place Value - Addition and Subtraction Relationship - Commutative Properties of Addition - Addition - Subtraction - Add without Regrouping - Add with Regrouping - Subtract without regrouping - Subtract with Regrouping	Add and Subtract Within 100
CC.2.2.2.A.2 Use mental strategies to add and subtract within 20	- Add - Subtract - Add Tens - Subtract Tens - Number Chart	Ten More or Less
CC.2.2.2.A.3 Work with equal groups of objects to gain foundations for multiplication.	- Addition - Multiply Using Repeated Addition - Multiply Using Arrays	
2.3 Geometry		
A. Geometry		
CC.2.3.2.A.1 Analyze and draw two- and three-dimensional shapes having specified attributes.	- Songs: Shapes, Shapes, Shapes; Corners and Sides; Kites - Book: The Shape of Things - Space Shapes - World Shapes - Geoboard	Draw Shapes
CC.2.3.2.A.2 Use the understanding of fractions to partition shapes into halves, quarters, and thirds.	- Song: Fractions - Books: Halves and Fourths and Thirds; The Fraction Twins - Fractions - Label Parts of Fractions - Fractions of Regions - Fractions of Groups	Fractions

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
2.4 Measurement, Data, and Probability		
A. Measurement and Data		
CC.2.4.2.A.1 Measure and estimate lengths in standard units using appropriate tools.	- Song: Measuring Plants - Book: Birds at My House - Length - Measurement Tools - Standard Units of Length	Measurement Tools Estimating Lengths
CC.2.4.2.A.2 Tell and write time to the nearest five minutes using both analog and digital clocks.	- Songs: Telling Time; Clock Hands - Tell Time - Tell Time to Five Minutes	Tell and Write Time
CC.2.4.2.A.3 Solve problems and make change using coins and paper currency with appropriate symbols.	- 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
CC.2.4.2.A.4 Represent and interpret data using line plots, picture graphs, and bar graphs.	Measurement Tools	Generating Measurement Data
CC.2.4.2.A.6 Extend the concepts of addition and subtraction to problems involving length.	- Book: Yangshi's Perimeter - Addition - Subtraction - Length - Standard Units of Length	One- and Two-step Word Problems Within 100

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
SCIENCE		
KINDERGARTEN		
Earth and Space Sciences		
Earth and Human Activity		
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
2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.	- Songs: Precipitation; Storms - Book: Whatever the Weather - Weather Tools - Calendar/Graph Weather	
3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	- Songs: Conservation; Pollution Rap - Pollution and Recycling - Care of Water - Care of Earth	Recycling Our Earth
Earth's Systems		
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
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	

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
Life Science		
From Molecules to Organisms: Structures and Processes		
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
Physical Science		
Motion and Stability: Forces and interactions		
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
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	
Energy		
1. Make observations to determine the effect of sunlight on Earth's surface	• Songs: Water; Plants Are Growing; Sun Blues • Sun • Water • Rocks	
2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area	• Book: My Family Campout	

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
GRADE 1		
Earth and Space Sciences		
Earth's Place in the Universe		
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
2. Make observations at different times of year to relate the amount of daylight to the time of year.	- Sun - Spring - Summer - Fall - Winter	
Life Science		
From Molecules to Organisms: Structures and Processes		
1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.	- Books: I Wish I Had Ears Like a Bat; Animal Bodies; Fawn Eyes - Deserts	
2. Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	- Song: Animal Bodies - Animal Behavior - Animal Bodies	
Heredity: Inheritance and Variation of Traits		
1. Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.	Books: George and Jack; A Seed Grows	Traits

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
Physical Science		
Waves and Their Applications in Technologies for Information Transfer		
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
2. Make observations to construct an evidence-based account that objects can be seen only when illuminated	- Books: My Family Campout; Lightning Bugs - Light Properties - Properties of Light	
3. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.	- Book: My Family Campout - Light Properties - Properties of Light	
4. Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.	- Song: Inventing - Books: I Want to Be a Scientist Like Thomas Edison; Inventions All Around	
GRADE 2		
Earth and Space Sciences		
Earth's Place in the Universe		
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

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
Earth's Systems		
1. Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.	Rock Cycle	
2. Develop a model 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	
3. Obtain information to identify where water is found on Earth and that it can be solid or liquid	- Songs: Water; Uses of Water; Precipitation; Water Is All Around - Water Sources - Water - Water Cycle - Care of Water - States of Water - Heat Changes Water	
Life Science		
Ecosystems: Interactions, Energy, and Dynamics		
1. Plan and conduct an investigation to determine if plants need sunlight and water to grow.	- Song: Plants Are Growing - Sun - Water - Plant Experiment - Healthy Plants' Needs	Light for Plants
2. Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.	Books: The Bee's Secret; The Old Maple Tree	
Biological Evolution: Unity and Diversity		
1. Make observations of plants and animals to compare the diversity of life in different habitats	- Songs: Animal Bodies; Four Ecosystems - Books: Animal Bodies; Where in the World Would You Go Today? - Ecosystems - Animal Bodies - Animal Behavior	Places on Earth

PENNSYLVANIA STANDARDS	WATERFORD DIGITAL RESOURCES	WATERFORD RESOURCES
Physical Science		
Matter and its Interactions		
1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties	• Book: Warm Soup for Dedushka • Changes in Matter • Movement of Heat • States of Water • Materials	
2. Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose	• Book: Warm Soup for Dedushka • Heat Movement • Movement of Heat • Heat Experiment	
3. Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.	• Books: I Want to Be a Scientist Like Wilbur and Orville Wright; Inventions All Around • Geoboard • Tangrams	
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	

PRE-MATH & SCIENCE

Math Books

Zero In My Toybox; One Day on the Farm; Two Feet; Look for Three; Four Fine Friends; Grandpa's Great Athlete: A Book About 5; Hide and Seek Six; Just Seven; Eight at the Lake; 9 Cat Night; Ten for My Machine; The Search for Eleven; The Tasty Number Twelve; Thirteen in My Garden; Fourteen Camel Caravan; Fifteen on a Spring Day; Dinner for Sixteen; The Seventeen Machine; Eighteen Carrot Stew; Nineteen Around the World; Twenty Clay Children; Poor Wandering 1; Snowy Twos Day; 1, 2, 3, 4 in the Jungle; Give Me 5; Suzy Ladybug; 7 Train; 8 Octopus Legs; Highway 9; 10 Astronauts; When I Saw 11; I Love the Number 12; 13 Clues; 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 & SCIENCE

Math & Science Books

One More Cat; Can You Guess? A Story for Two Voices; I Want to Be a Scientist Like Carl Linnaeus; I Want to Be a Scientist Like Antoni van Leeuwenhoek; Whatever the Weather; I Want to Be a Mathematician Like Sophie Germain; Water Is All Around; Mr. Romano's Secret: A Time Story; A Seed Grows; How Long is a Minute?; Marty's Mixed-up Mom; I Want to Be a Scientist Like Louis Pasteur; Pancakes Matter; Jump Rope Rhymes; Facts About Families; Fifteen Bayou Band; Hooray, Hooray for the One Hundredth Day!; Symmetry and Me; Animal Bodies; Everybody Needs to Eat; The Circus Came to Town; I Want to Be a Mathematician Like Thales; Bugs for Sale; Heads or Tails; Your Backyard; The Birds, the Beasts and the Bat; Halves and Fourths and Thirds; We All Exercise; Circus 20; Red Rock, River Rock; Painting by Number; I Want to Be a Scientist Like Joanne Simpson; Navajo Beads; Where in the World Would You Go Today?; I Want to Be a Scientist Like Wilbur and Orville Wright

FLUENT MATH & SCIENCE

Math & Science Books

The Snow Project; Chloe's Cracker Caper; What Sounds Say; Fossils Under Our Feet; The Boonville Nine; I Want to Be a Scientist Like Alexander von Humboldt; I Want to Be a Scientist Like Marie Curie; I Want to Be a Scientist Like Stephen Hawking; George and Jack; The Old Maple Tree; A Dinosaur's First Day; I Want to Be a Scientist Like Isaac Newton; My Family Campout; I Want to Be a Scientist Like Thomas Edison; Warm Soup for Dedushka; How Did the Chicken Cross the Road?; Inventions All Around; The Beginning of Numbers; I Want to Be a Mathematician Like Ada Byron Lovelace; Lightning Bells; Tyrannosaurus X 1; Halves and Fourths and Thirds; Navajo Beads; Red Rock, River Rock; I Want to Be a Mathematician Like Srinivasa Ramanujan; The Fraction Twins; Yangshi's Perimeter; I Want to Be a Mathematician Like Archimedes; Birds at My House; Painting by Number; The Fable Fair



SUPPORT

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

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; N: I Touch My Nose Like This (Spanish); O: Polly, Put the Kettle On; P: This Little Pig; Q: Quack, Quack, Quack; R: Little Rabbit (Chinese); S: Eensy, Weensy Spider; T: Tortillas, Tortillas (Spanish); U: The Bus; V: My Valentine; W: Wee Willie Winkie; X: A-hunting We Will Go; Y: Yankee Doodle

Beginning Reading Songs

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

Many of these songs are available on the [Waterford.org YouTube channel](https://www.youtube.com/channel/UC8v33333333333333333333).

WEEKLY HOMELINK NEWSLETTERS

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

MATH HOMELINK NEWSLETTERS

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

SCIENCE HOMELINK NEWSLETTERS

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

WATERFORD MENTOR

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.

READING HOMELINK NEWSLETTERS

Alphabet Knowledge

Comprehension and Vocabulary

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

Readiness Skills Letters

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

Phonological Awareness Letters

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



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