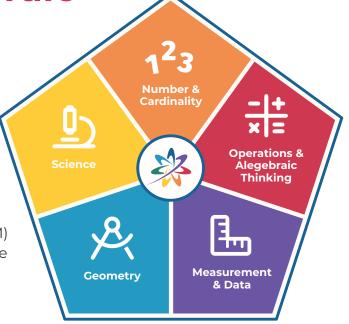


Operations & Algebraic Thinking

Operations & Algebraic Thinking

Operations & Algebraic Thinking teaches arimthmetic computations.

There is 100% correlation between Waterford Early Learning's math and science curriculum and the National Council of Teachers of Mathematics (NCTM) Standards. All NCTM Standards are addressed in one or more levels of the curriculum.



Operations & Algebraic Thinking Skills Taught | Overview

Beginning	Developing	Advanced
Use objects, drawing, etc., to represent addition and subtraction.	Understand the relationship between addition and subtraction.	Fluently add 2-digit numbers.
Add and subtract within 10, including solving word problems.	Solve addition and subtraction problems within 20.	Add and subtract with and without regrouping.
Know addition and subtraction facts within 5.	Know addition and subtraction facts within 10.	Explain addition and subtraction strategies.
Understand and manipulate addends and minuends.	Subtract 2-digit numbers with regrouping.	Use repeated addition to represent simple multiplication.
	Use composition of tens when necessary to add and subtract within 100.	Understand beginning division.

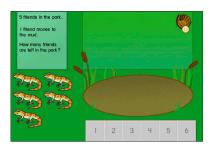
View example Operations & Algebraic Thinking activities here.



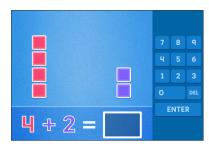
By learning early addition and subtraction, students boost problem-solving, critical thinking, and logical reasoning, paving the way for ongoing math success. Mastery of multiplication and division enables spotting patterns, forging number connections, and tackling intricate problems with confidence, offering essential tools for academics and real-life scenarios.

Addition

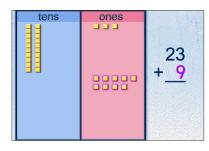
Learning addition is of the utmost importance for early learners, as it fosters essential skills such as number sense, critical thinking, and problem-solving. It empowers them to tackle everyday challenges, build a solid mathematical understanding, and pave the way for further learning in advanced math concepts.



Act Out Addition



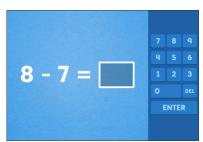
Addition



Add 2-Digit Numbers with Regrouping

Sequencing and Place Value

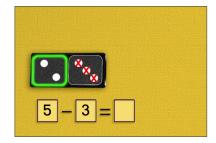
Subtraction enables students to develop foundational numeracy skills, comprehend the concept of taking away or comparing quantities, and establish a solid basis for future mathematical operations.



Subtraction



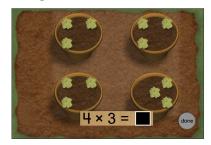
Insect Island



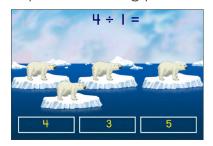
Subtraction Sentences

Multiplication and Division

Acquiring multiplication and division skills at an early age helps form a solid foundation for tackling intricate mathematical concepts and honing problem-solving abilities.



Multiply Using Repeated Addition



Divide Using Repeated Subtraction



Counting Castle



Offline Resources and Activities

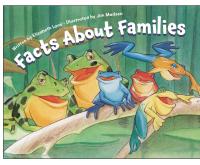
Waterford's offline resources are beneficial for educators as they provide hands-on learning experiences, engage students' senses, and promote the development of fine motor skills. These materials, available in English and Spanish, can be used in various educational settings—including classrooms and environments with limited technology access—to ensure equal learning opportunities and encourage independent thinking and creativity in students.

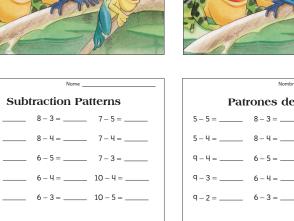
Children's Books introduce young readers to the world of counting, numerical concepts, and understanding quantities. Through engaging stories and colorful illustrations, these books foster a foundational understanding of numbers and how they relate to everyday life.

Teacher Resources support instruction and enhance learning in the classroom. Lesson plans, activities, and practice pages can be printed and used by educators to provide additional practice and enrichment opportunities.

highlighted skills, as well as a variety

of additional skills.

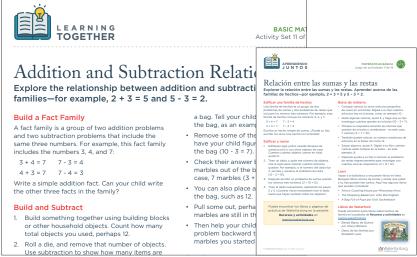




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tos de las familias

Learning Together Activity Sheets provide learning activities and resources for families. Each activity sheet includes simple and engaging ideas connected to the



Visit Resources & Activities to find these resources and more!