

Number & Cardinality

Number & Cardinality teaches number recognition, counting, number patterns, and place value.

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.



Number & Cardinality Skills Taught | Overview

Beginning	Developing	Advanced
Recognize, order, and write numbers 0–20.	Read, write, and count numbers up to 100.	Understand odd and even numbers.
Use place value to determine tens and ones.	Understand place value witin 2-digit numbers, and compare 2-digit numbers.	Use place value to explain addition and subtraction (within 1000).
Identify the position of an object using ordinal numbers 1st through 5th	Determine if an answer to a problem is reasonable. Does the answer make sense?	Explore rounding to tens.
Order, count, and sequence numbers to 100 by ones and tens.	Use skip counting by 2s, 5s, and 10s.	Use advanced skip counting.
Use strategies to compare group size (more than, less than, or equal to).	Use >, =, and < symbols to record the results when comparing two two-digit numbers.	Compare two three-digit numbers based on place value of each digit.

View example Number & Cardinality activities here.

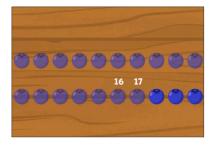


Counting and Number Patterns

Students hear and sing engaging songs about numbers to build their number recognition and counting skills. Students also learn through interactive games that promote understanding of the number sequence.



4 in the Jungle



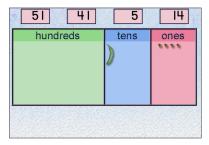
Counting Blueberries



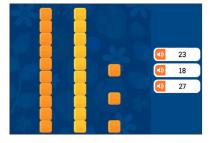
Odd Todd and Even Steven

Sequencing and Place Value

Sequencing numbers by ones and tens and understanding place value for 2- and 3-digit numbers is important for students as it enables them to grasp the concept of quantity and the relationship between digits in a number. This knowledge allows them to accurately count, compare, and perform basic operations with numbers, forming a crucial basis for later mathematical proficiency and problem-solving abilities.



Place Value of 2-Digit Numbers



Place Value Counting



Story Problem Strategies (Place Value in 3-digit Numbers)

Comparing Group Sizes

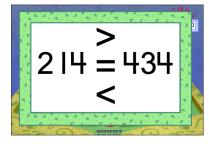
Learning to compare group sizes (more than, less than, and equal to) helps students understand numbers, think critically, and build a foundation for basic math concepts. This skill allows students to make meaningful comparisons, solve problems, and learn basic math operations, leading to mathematical fluency and logical reasoning.



Scale Counting (Equal To)



Greater Than, Less Than (2-digit Numbers)



Greater Than, Less Than (3-digit Numbers)

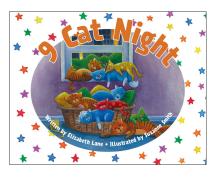


Offline Resources and Activities

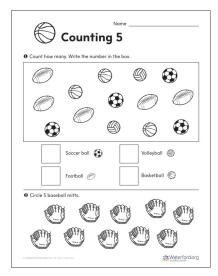
Waterford's offline resources are beneficial for educators as they provide hands-on learning experiences, engage students' senses, and promote the development of fine motor skills. These materials, available in English and Spanish, can be used in various educational settings—including classrooms and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

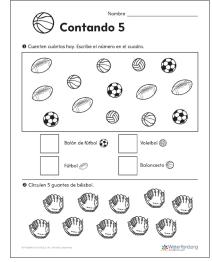
Children's Books introduce young readers to the world of counting, numerical concepts, and understanding quantities. Through engaging stories and colorful illustrations, these books foster a foundational understanding of numbers and how they relate to everyday life.

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.



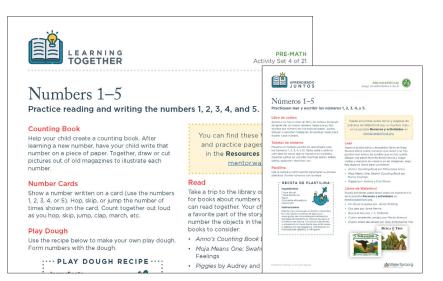






Learning Together Activity

Sheets provide learning activities and resources for families. Each activity sheet includes simple and engaging ideas connected to the highlighted skills, as well as a variety of additional skills.



Visit **Resources & Activities** to find these resources and more!

