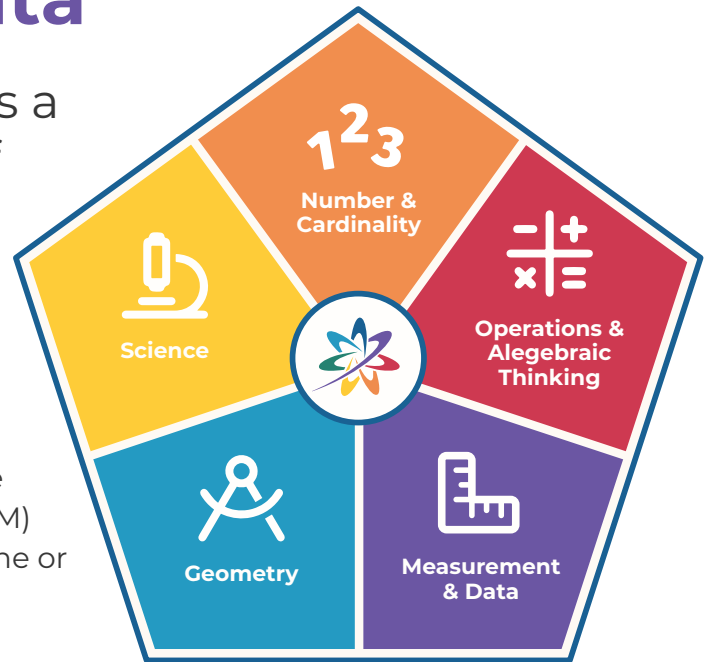




Measurement & Data

Measurement & Data develops a foundational understanding of measurement, time, money, and methods for gathering and using information.



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.

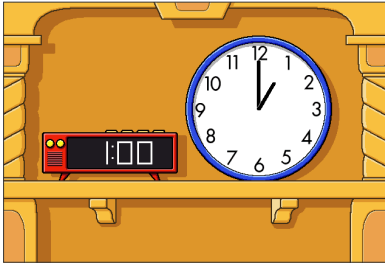
Measurement & Data Skills Taught | Overview

Beginning	Developing	Advanced
Compare, classify, and describe objects.	Represent data using tally marks, graphs, and diagrams.	Represent data using graphs.
Use digital and analog clocks to tell time to the hour.	Use digital and analog clocks to tell time to the half-hour.	Use digital and analog clocks to tell time to the minute.
Identify coins and their value.	Identify coin value and amounts of money.	Solve word problems.
Order objects by size, capacity, height, length, weight, etc.	Use objects to measure length.	Measure and estimate length using measurement tools.
	Compare measurable characteristics of different objects on the same dimensions (e.g., time, temperature, volume, weight, length, etc.)	Predict the likelihood of an event and verify the prediction.

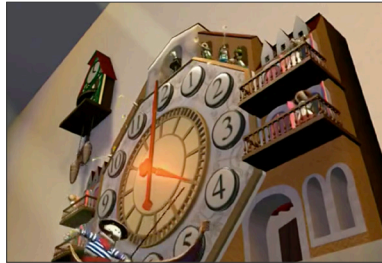
[View example Measurement & Data activities here.](#)

Telling Time

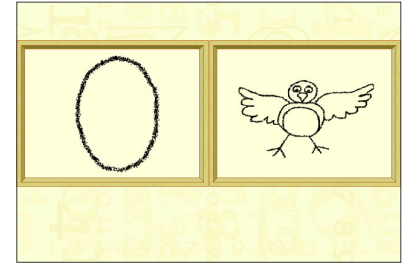
Learning to tell time helps students develop essential skills related to daily routines, organization, and understanding the concept of time. Mastery of telling time enables students to manage their schedules, follow instructions, anticipate events, and foster independence and responsibility through repetition, practice, and exposure to real-life examples.



Tell Time to the Hour



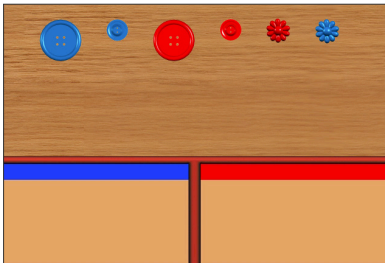
Telling Time Song



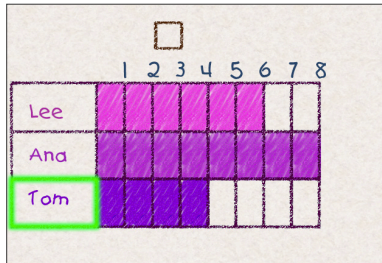
More Time, Less Time

Data and Graphs

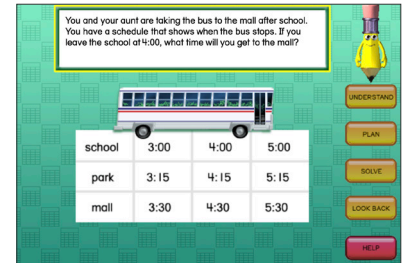
Reading graphs is important for students as it cultivates their data literacy, critical thinking, and analytical skills. Students learn to read graphs through engaging activities that involve interpreting pictographs, bar graphs, or simple charts, allowing them to make connections between visual representations and real-world information and fostering their ability to understand and analyze data effectively.



Sort Practice



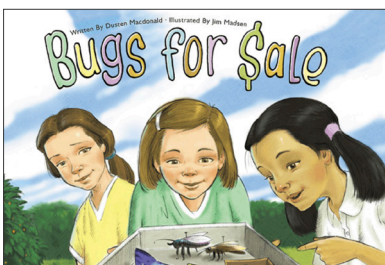
Bar Graphs



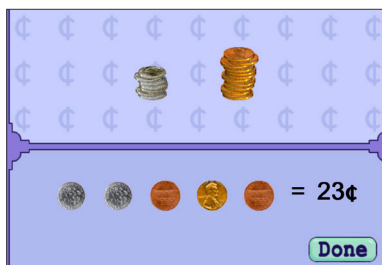
Problem Solving Strategies (Use Graphs & Tables)

Coins and Value

Learning about coins and their value introduces students to the practical understanding of money, promotes basic numeracy skills, and establishes the foundation for financial literacy. This knowledge empowers them to make informed decisions about saving, spending, and exchanging money, setting them on a path toward financial responsibility and understanding the value of currency in their everyday lives.



Bugs for Sale



Count Dimes, Nickels, and Pennies

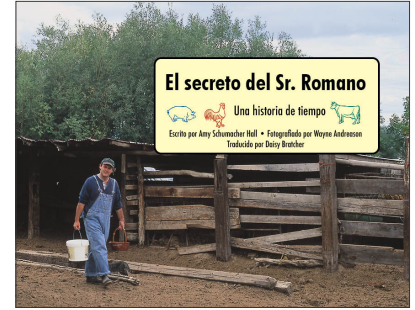
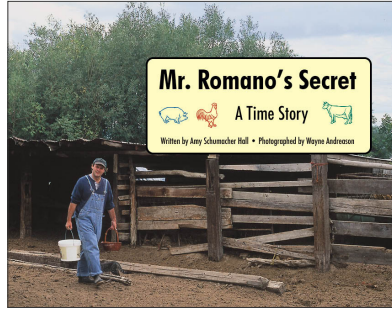
	\$1.13		\$1.80
	\$1.35	\$1.07	
	\$1.48		\$1.21

Count Bills and Coins

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.

Use Graphs and Tables

Look at this table and answer the questions.

	small	medium	large
popcorn	25¢	50¢	75¢
apple juice	35¢	45¢	60¢
sandwich	65¢	80¢	95¢
ice cream	20¢	30¢	40¢

1 How much does a medium ice cream cost? _____

2 You have 70¢ to spend. What things could you buy? _____

3 Rod wants a medium popcorn. Jan wants a large ice cream. How much money will they need to spend? _____

Look at this graph and answer the questions.

Favorite Colors	1	2	3	4	5	6	7	8	9	10
red										
blue										
green										

1 What color do the most people like? _____

2 How many people like red? _____

3 How many more people like blue than green? _____

Usa gráficas y tablas

Ve esta tabla y contesta las preguntas.

	pequeña	mediana	grande
palomitas	25¢	50¢	75¢
jugo de manzana	35¢	45¢	60¢
emparedado	65¢	80¢	95¢
helado	20¢	30¢	40¢

1 ¿Cuánto cuesta un helado mediano? _____

2 Tienes 70 para gastar. ¿Qué cosas podrías comprar? _____

3 Rod quiere unas palomitas medianas. Jan quiere un helado grande. ¿Cuánto dinero tendrán que gastar? _____

Fíjate en esta gráfica y contesta las preguntas.

Colores favoritos	1	2	3	4	5	6	7	8	9	10
rojo										
azul										
verde										

1 ¿Cuál color es el preferido de la mayoría de las personas? _____

2 ¿A cuántas personas les gusta el rojo? _____

3 ¿A cuántas personas les gusta más el azul que el verde? _____

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.

LEARNING TOGETHER

Problem-solving

Practice thinking and problem solving skills using these resources.

Using and Drawing Pictures

Encourage your child to use pictures to help solve math problems. Invite them to help you with math tasks by drawing a picture to help visualize the situation. For example, you might say:

- There are five people coming to dinner and we have 12 dinner rolls. How many rolls can each person have?
- There are three cans on each row, and there are four rows. How many cans are there?

Models

Help your child use objects to help solve math problems. As an example, if your child can't remember how many sides a cube has, help them find an item of that shape and count the sides.

Read

Take a trip to the library for books about problem solving that your child can read together and consider:

- Betcha!* by Stuart J. Murphy
- Lemonade For Sale* by Stuart J. Murphy
- Ten Apples Up On Top* by Dr. Seuss

You can find these and practice pages in the Resource Mentions.

PRE-MATH Activity Set 2

APRENDIENDO JUNTOS

MATEMÁTICAS BÁSICAS

Juego de actividades 2 de 2

Solución de problemas

Practiquen las habilidades de el pensamiento y la resolución de los problemas usando estas actividades.

Usar y dibujar imágenes

Ayuda a tu hijo a usar dibujos para ayudar a resolver problemas matemáticos. Invítalo a ayudarte con las tareas matemáticas haciendo un dibujo para ayudar a visualizar la situación. Por ejemplo, podrías decir:

- Hay cinco personas que vienen a cenar y tenemos 12 rolls para la cena. ¿Cuántos rolls puede tener cada persona?
- Hay tres latas en cada fila y cuatro filas. ¿Cuántas latas hay?

Modelos

Ayuda a tu hijo a usar objetos para ayudar a resolver problemas matemáticos. Por ejemplo, si tu hijo no puede recordar cuántos lados tiene un cubo, ayúdalo a encontrar un elemento de esa forma y a contar los lados.

Libros de Waterford

Pueden encontrar estos libros y páginas de práctica de Waterford.org o en nuestros materiales de enseñanza de Chile por Olivia Birdall.

- Betcha!* por Stuart J. Murphy
- Lemonade For Sale* por Stuart J. Murphy
- Ten Apples Up On Top* por Dr. Seuss

Puede encontrar estos libros y páginas de práctica de Waterford.org o en nuestros materiales de enseñanza de Chile por Olivia Birdall.

- Los nuevos de *El mundo de Mica Johnson*

Visit [Resources & Activities](#) to find these resources and more!