

SORTING & GRAPHING

Preschool Positional Words

How many letters are in your name?

1	2	3	4	5	6	7	8	9	10	11	12
G	e	m	m	a							
S	a	m	a	n	t	h	a				
J	a	y									
M	a	r	y	L	o	u	i	s	e		

Candy Colors in a Pack

m	m	m	m	m	m	m					
m	m	m									
m	m	m	m	m							
m	m	m	m	m	m	m	m	m			
m	m										
m	m	m	m	m	m						

1	2	3	4	5	6	7	8	9	10	11	12
G	e	m	m	a							
S	a	m	a	n	t	h	a				
J	a	y									
M	a	r	y	L	o	u	i	s	e		

These are LETTERS.

A

F

These are NUMBERS.

1 2 3 4 5

6 7 8

5

These vehicles travel on

SKY.

LAND.

WATER.

Colors

RED

YELLOW

GREEN

SCROLL
to take a look inside!

GROUP LESSONS & CENTERS UNIT #

PLANNING PAGES

- Detailed instructions for each activity.
- Complete list of recommended supplies.
- Objectives written in kid-friendly language.
- Ideas for expanding the lesson.

The image shows a digital tablet displaying a lesson plan for 'Favorite Ice Cream'. The title 'Favorite Ice Cream' is at the top left, and 'GRAPHING & SORTING' is in a box at the top right. Below the title are four ice cream cones with labels: 'chocolate.', 'vanilla.', 'mint.', and 'strawberry.'. Each cone has an 'I like' card above it. To the right of the cones are sections for 'Materials:', 'Objectives:', and 'Adaptations & Extensions:'. The 'Materials:' section lists 'I like' cards, chart paper, and labels for the chart. The 'Objectives:' section lists two goals: collecting and organizing data, and recognizing and labeling preferences. The 'Adaptations & Extensions:' section includes a 'Pictorial Adaptation' and a small image of a completed chart with names and ice cream flavors.

Favorite Ice Cream

GRAPHING & SORTING

Materials:

- 'I like' cards
- Chart paper
- Labels for chart

Objectives:

- The students will collect and organize data.
- The students will recognize and label preferences.

Adaptations & Extensions:

- + **Pictorial Adaptation** - Set up the heading 'Favorite Ice Cream Flavors' at the top of a pocket chart. Put the flavor cards at the bottom. Students use name cards or student pictures to show their favorite flavor.

Procedure:

1. Print the 'I like' half-sheet cards and place them at student eye level around the room.
2. Talk about favorite ice cream flavors with the class. Point out the signs around the room and ask the students to go stand near the sign that is their favorite.

QUESTIONS & ASSESSMENTS

➤ Age-appropriate questions for teachers to ask and assess.

➤ Included assessment covers distance, position, direction, and placement abilities.

Planning Page

Sorting and graphing are essential math skills for preschoolers that help them make sense of the world around them. Sorting teaches children how to organize information, a skill they'll use every day when cleaning up, getting dressed, and finding what they need. Graphing builds on sorting, helping kids count and compare. Hands-on activities and playful learning to help children learn.

GRAPHING & SORTING

What do preschool students need to be able to do?

Learning Outcome	What does it look like?
Sort objects by color	<ul style="list-style-type: none">During playtime, a child separates all the red cars from the other colors in a basket of toy vehicles, placing them into a separate pile or container.At the art table, a child organizes crayons into groups by color, placing all the blue crayons in one cup, the green in another, and so on, without prompting.During cleanup, a child confidently puts red LEGO blocks into the red bin and yellow LEGO blocks into the yellow bin, recognizing the color match on their own.
Sort objects by size	<ul style="list-style-type: none">During block play, a child organizes blocks into three groups: small, medium, and large, placing each size in its own pile before building.At the manipulative center, a child sorts toy animals into groups by size, putting the small animals (like mice) in one bin, the medium-sized ones (like cats) in another, and the large ones (like elephants) in a third.
Sort objects by shape	<ul style="list-style-type: none">During block play, a child separates square blocks, triangle blocks, and circle blocks into different piles before using them to build.At the puzzle table, a child groups foam or wooden shapes into categories like circles, squares, and rectangles, placing each shape type in its own container.
Interprets real objects	<ul style="list-style-type: none">Toy Graph: A child creates a graph by placing toy cars, trains, and planes into rows on a large chart mat. After organizing the items, they count each row and say, "There are more cars than planes!" or "Trains have the fewest."Favorite Fruit Graphing: The children vote for their favorite fruit (apples, bananas, or oranges) by standing in lines behind labeled pictures of each fruit. A child counts the number of friends in each line and says, "Bananas have the most votes!" or "Apples and oranges have the same number!"

Notes:

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FULL COLOR PHOTOGRAPHS

- Includes brightly colored, engaging photographs to spark discussion.

We can sort things by color.



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What color block has the most?



A graph is a way of helping us organize information.

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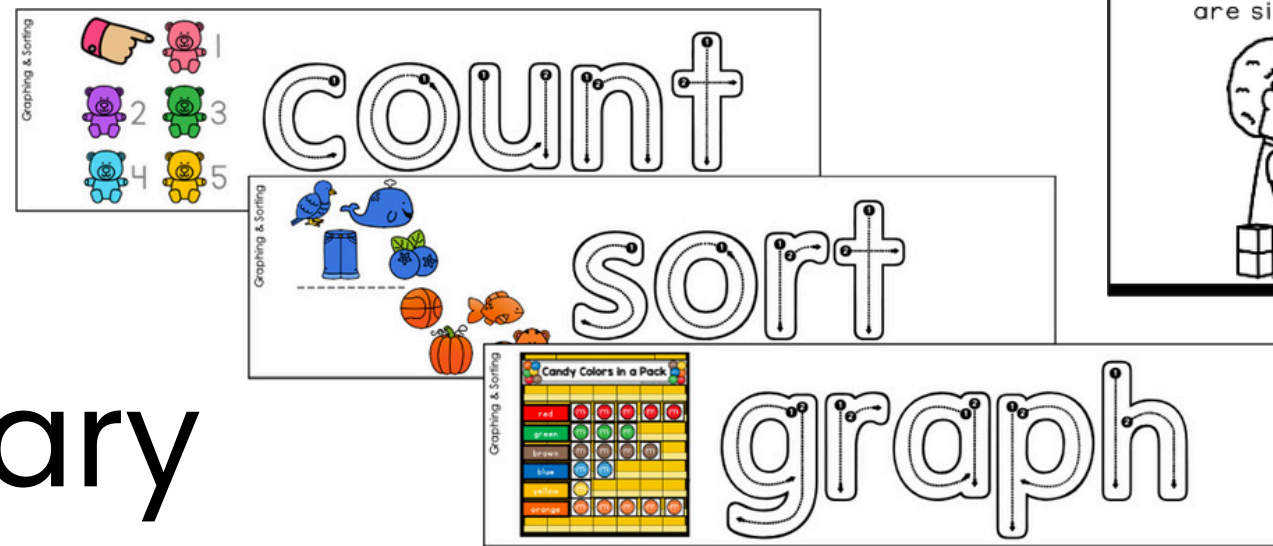


We can sort things by shape.

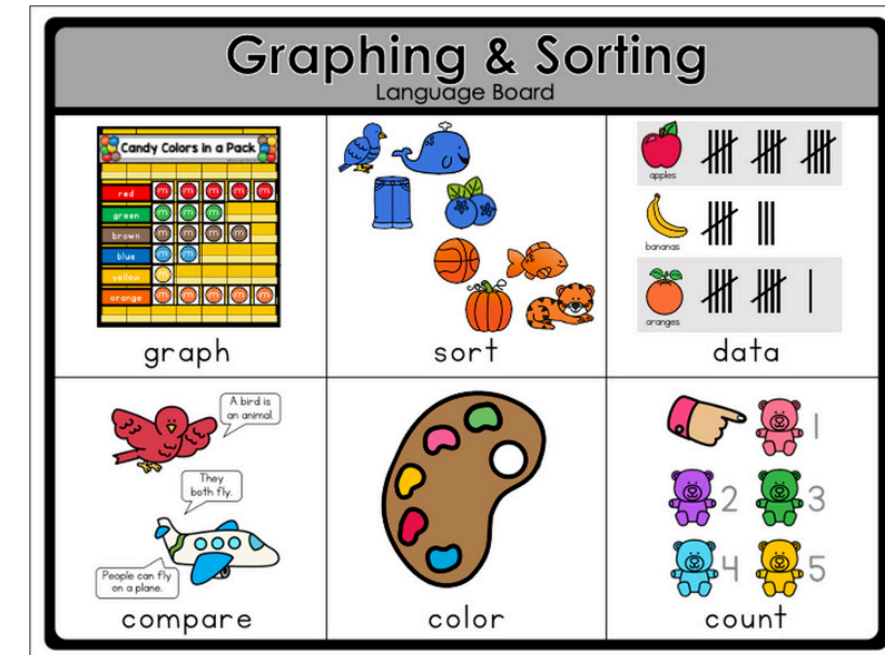
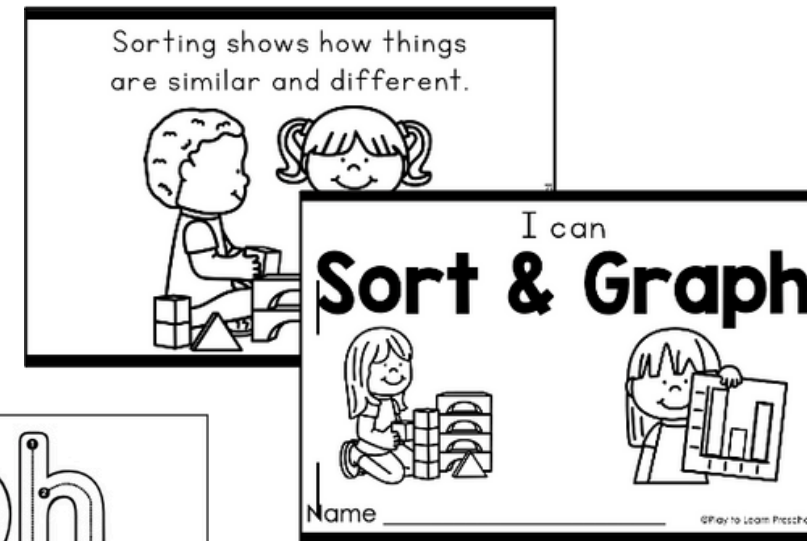
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EMERGENT MATH & LITERACY

➤ Tracing cards

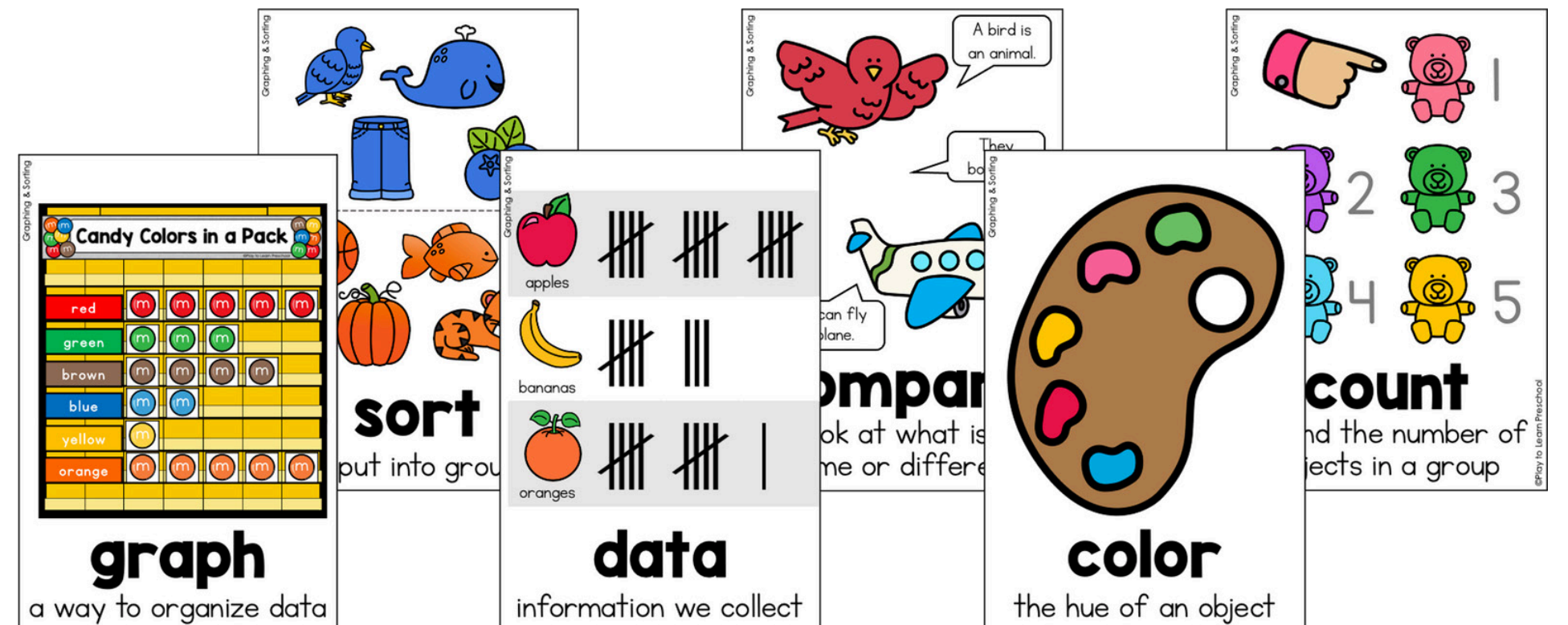


➤ Vocabulary posters



➤ Language Board

➤ Take-home book



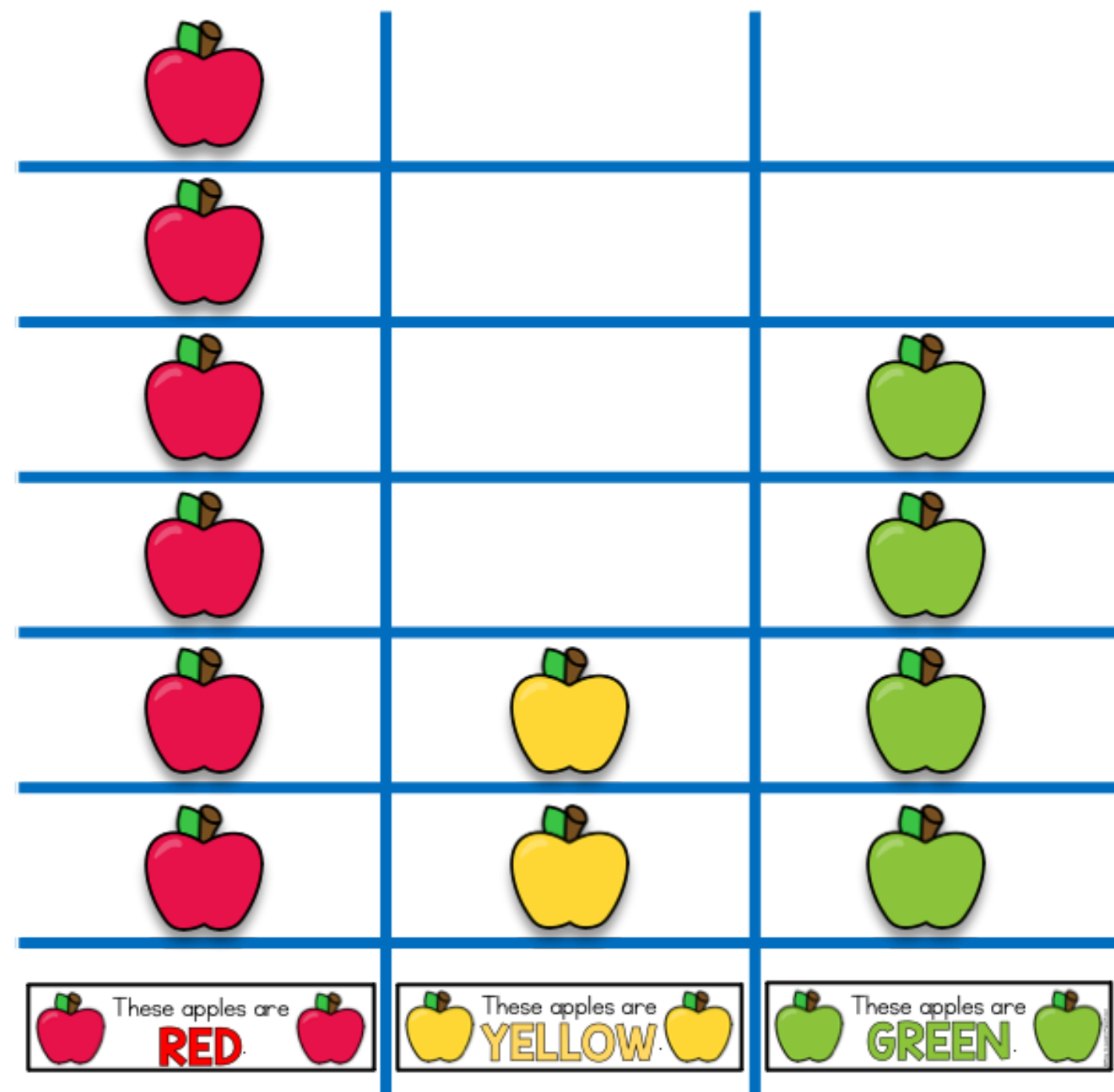
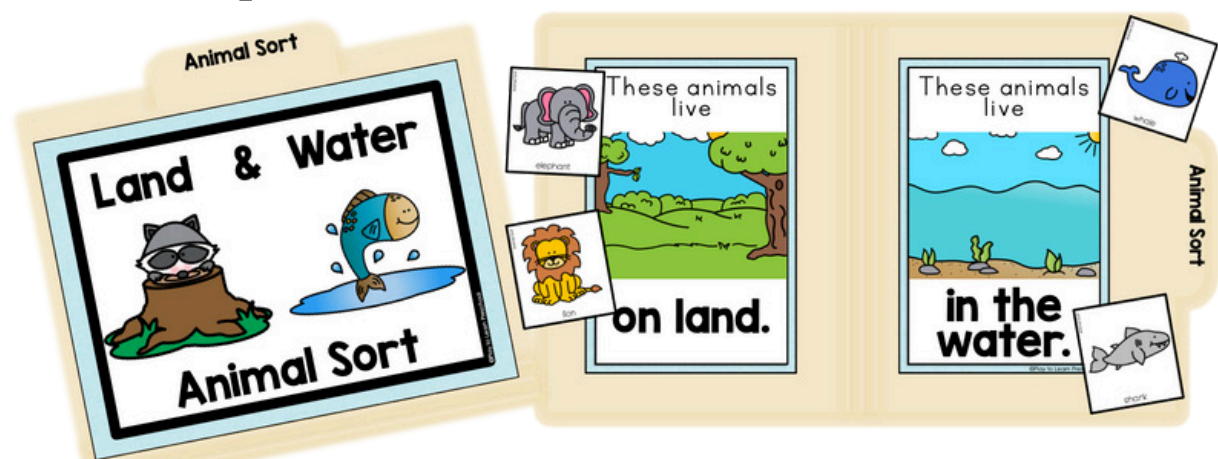
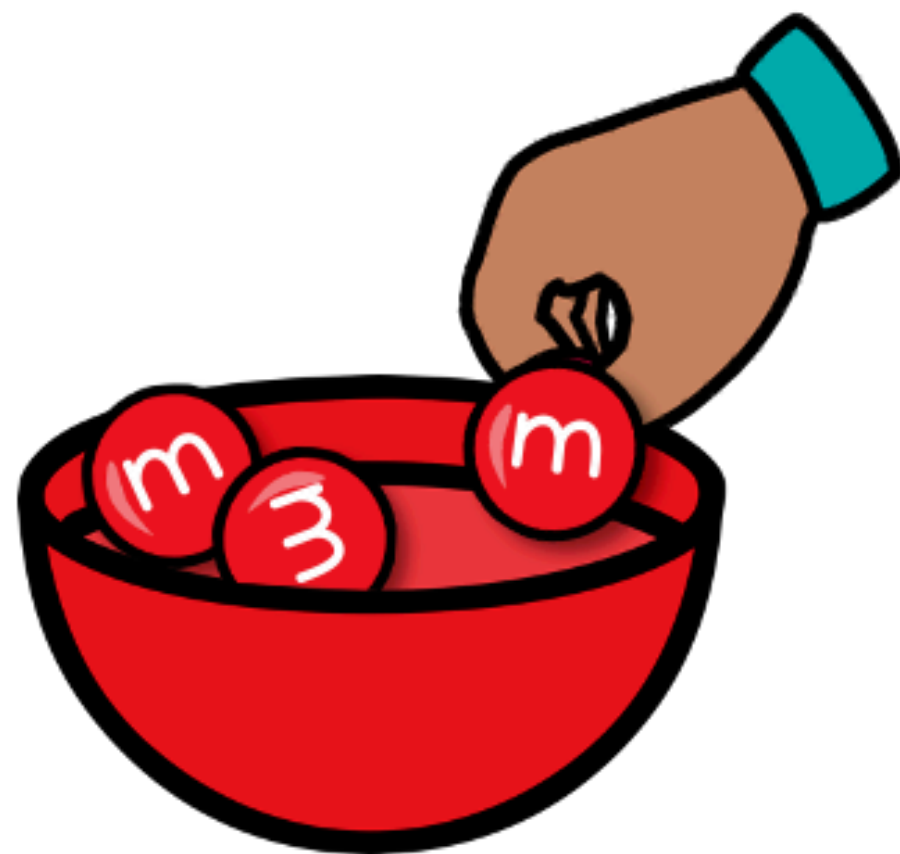
HANDS-ON ACTIVITIES

➤ Guided Group Activities

➤ Real-World Sorting

➤ Graphs & Analyzing Graphs

➤ Center Activities



BOOK RECOMMENDATIONS

- Peer-reviewed books for preschoolers
- Stories connect to mathematical concepts learned during classroom activities.
- Take-home mini book included

Book Recommendations

Graphing and Sorting

MATH CENTER

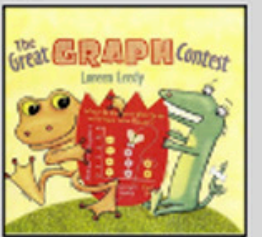
Sort it Out! by Barbara Mariconda

A playful story where Packy the Packrat sorts through his collection of treasures, teaching young students about sorting. With colorful illustrations and fun rhymes, this is a great text for the preschool classroom.



The Great Graph Contest by Loreen Leedy

Two friends compete to create the best graphs in this humorous, interactive book. Kids will be introduced to different types of graphs through creative examples and illustrations that make the concept of graphing fun.



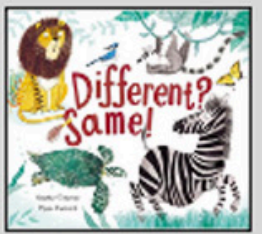
The Button Box by Margarette S. Reid

Sorting shows how things are similar and different.



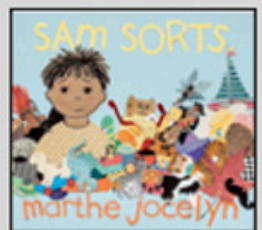
Different? Same! by Heather Tekavec

This book explores the concept of similarities and differences by comparing animals. With vibrant pictures and simple language, it provides a great introduction to comparing and contrasting.



Sam Sorts by Marthe Jocelyn

Sam sorts through his collection of 100 items, finding different ways to organize and group them. With bright illustrations and a focus on critical thinking, this book helps young children understand sorting in a playful way.



I can Sort & Graph



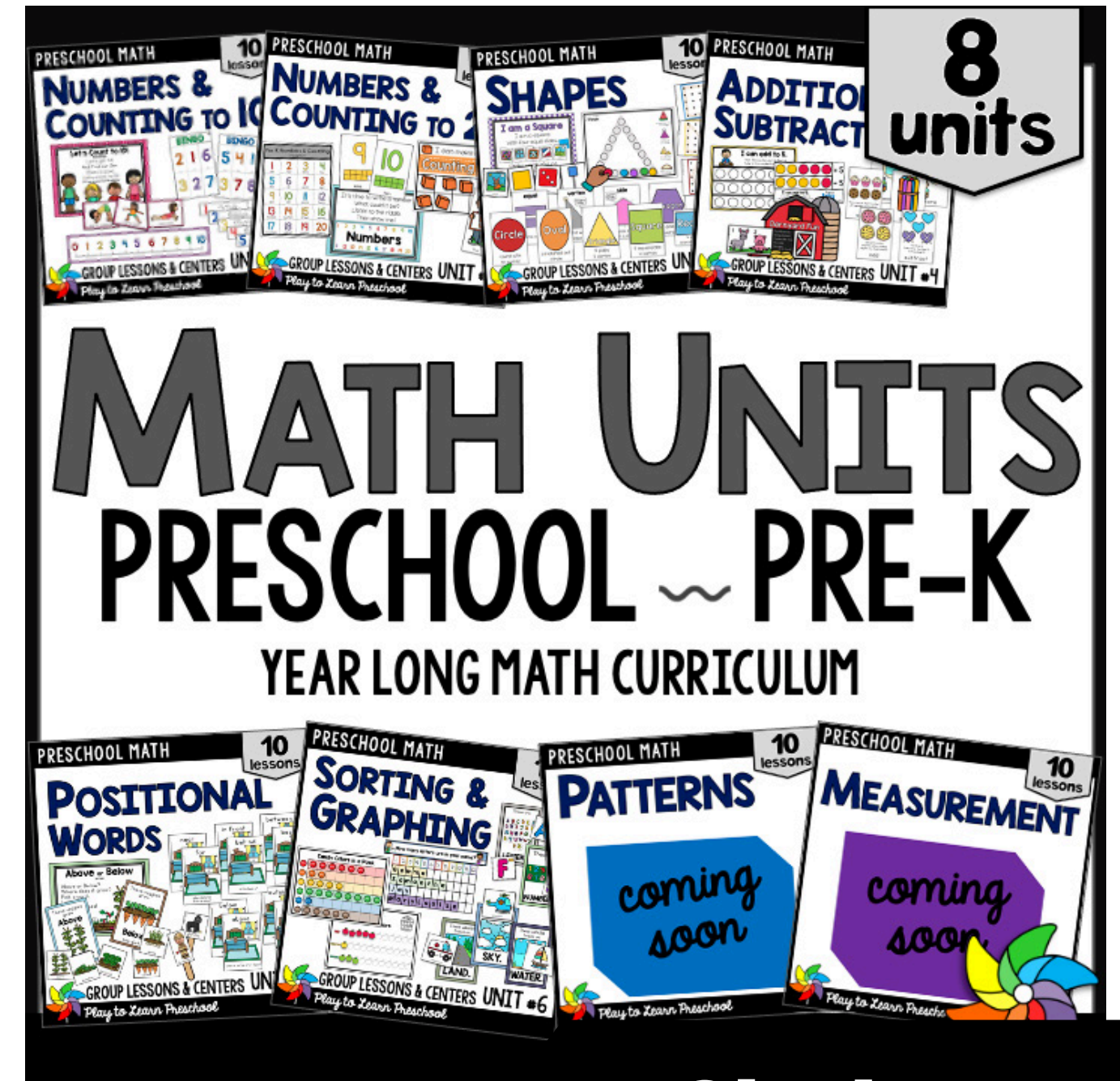
Name _____

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- Includes **8** mathematics units with learning objectives, supply lists, lesson ideas, photos, and activities!
- Foster **early mathematical thinking** as young learners solve problems, make connections, and build a strong foundation for future math success in **hands-on** ways.



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learn more!**

HAVE FUN PLAYING AND LEARNING WITH YOUR STUDENTS!



Meet Jamie

Jamie is the founder and C.E.O of Play to Learn Preschool. She has her bachelor's degree in Early Childhood Education and a master's degree in reading education. She has taught in both public and private schools and works tirelessly to create meaningful and delightful preschool experiences for both her virtual and in-person preschool students.

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