

Mindful MATH

Proud to Be Primary

Graphing & Sorting



Kindergarten Comprehensive Math Curriculum

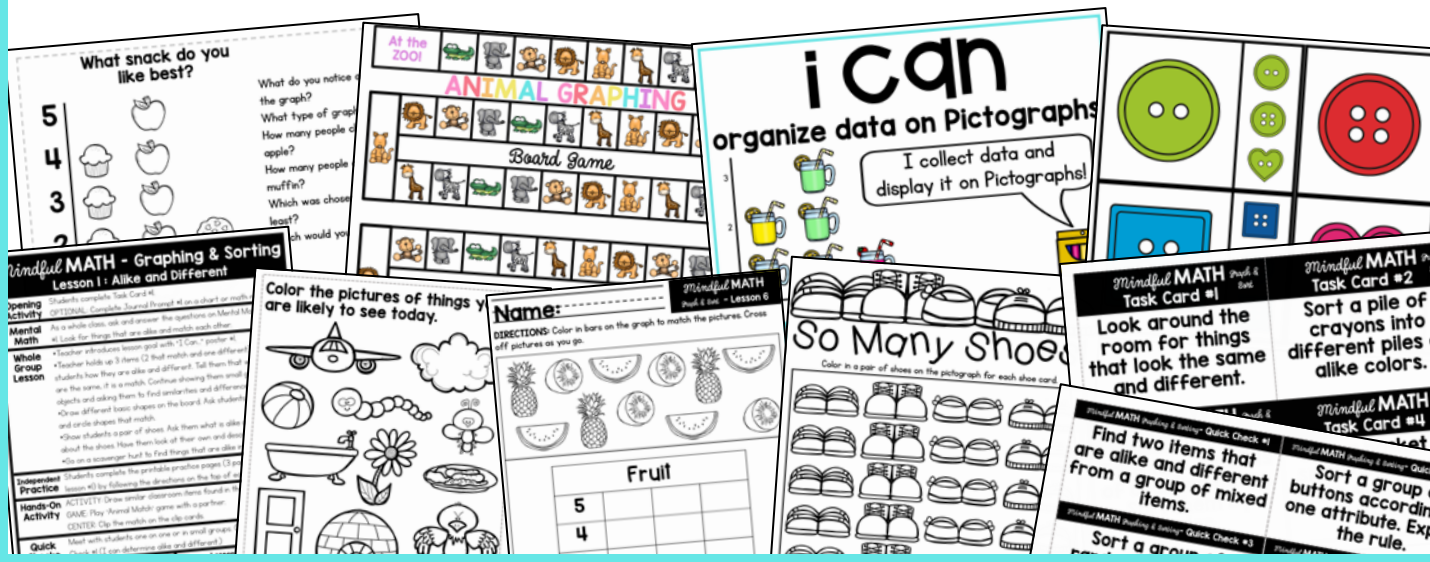
Mindful MATH



Graphing & Sorting

What is Included in this Comprehensive Unit:

- ♥ A month's worth of instruction
- ♥ Standard-based lessons
- ♥ 9 detailed lesson plans
- ♥ Differentiated practice worksheets
- ♥ Warm-up task cards
- ♥ Mental Math flash cards
- ♥ Math journal prompts
- ♥ Math games
- ♥ Math centers
- ♥ Summative Assessment: Quick Check task cards



Mindful MATH

Graphing & Sorting



What's included in this 225+ page unit:

Detailed Lesson Plans

Booklists

Posters & Materials

Mindful MATH - Graphing & Sorting		
Lesson 3 - Sort and Classify by Two Attributes		
Opening Activity Students complete Task Card #3 using counting bears.		
Mental Math As a whole class, we will answer the questions on Mental Math card #3. Discuss how the patterns were sorted and about the sorting rule.		
Whole Group Lesson *Teacher attributes lesson goal with "I Can" poster #3. *As students sit in a circle with their feet facing the center of the floor, ask them how objects can be sorted (i.e. items, colors, shapes, etc.) Get different suggestions, choose one as a class, and sort according to that rule (hand in different groups) Repeat using a different attribute of sorting. *Caption to students that we can sort by two attributes. Using buttons or button cards, show them how to sort by color and shape (i.e. yellow and circle or blue and square). Draw out the cards on buttons to small groups. Ask them to sort using two attributes. Start with the class!		
Independent Practice Students complete the printable practice pages (2 pages) before Lesson #3 by following the directions on the top of each page.		
Hands-On Activity CENTER #4: Have students fill out different math manipulatives at hand-up. Ask them to help you organize and sort them. CENTER #2: Have a size of buttons to be sorted (by 1 or 2 attributes).		
Quick Checks Meet with students one on one or in small groups. Complete Quick Check #12. You can sort and classify by two attributes.		
Lesson Goal Sort by two attributes (color, shape, size, or other).	Questions How can we sort? What is the sorting rule? What attributes do they have?	Lesson Materials Buttons & button cards. Journal/Prong #3. Practice pages. Mindful Math cards. Stacks of math manipulatives. Literatures: Grandmother's Button Box by Linda Williams Aber. Quick Check #12.

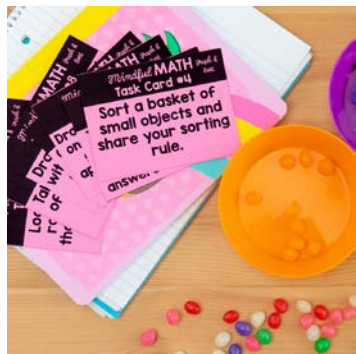
Mindful MATH - Graphing & Sorting - Book List		
LESSON 1 A Pair of Socks by Stuart J. Murphy	LESSON 2 Sort It Out! by Barbara Marston	LESSON 3 Grandmother's Button Box by Linda Williams Aber
LESSON 4 3 Little Froglings by Stuart J. Murphy	LESSON 5 Tidy Up! by Stuart J. Murphy	LESSON 6 The Great Graph Contest by Loran Leedy
LESSON 7 The Best Vacation Ever by Stuart J. Murphy	LESSON 8 Family Reunion by Bonnie Boder	LESSON 9 Probably Pictographs by Stuart J. Murphy



Task Cards

Math Journals

Mental Math Cards



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Graphing & Sorting

What's included in this 225+ page unit:

Worksheets



Class Graphs



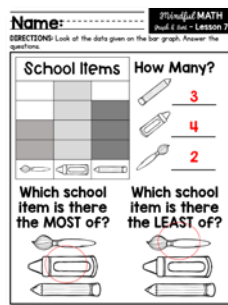
Hands-On Activities



Assessments



Answer Keys

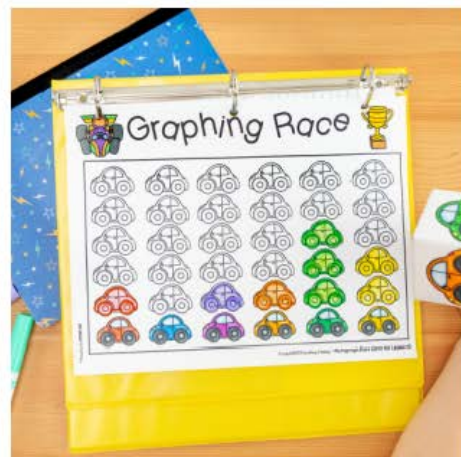
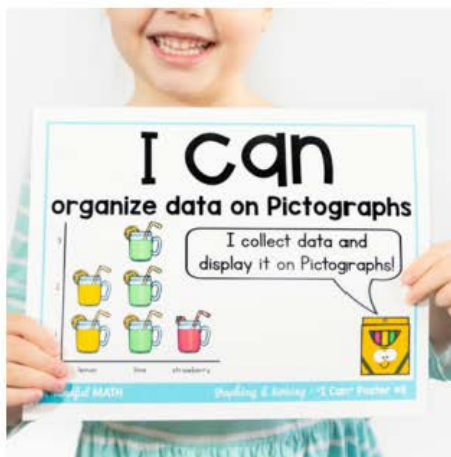


Centers



This Mindful MATH unit covers

- ♥ Alike and different
- ♥ Sort & classify by 1 and 2 attributes
- ♥ Parts of a graph
- ♥ Collect, organize, & display data on pictographs, bar graphs
- ♥ Analyze & describe data
- ♥ Probability



Mindful MATH

HAS WHAT TEACHERS LOVE!

- This ONE math curriculum unit is all you need to teach this math concept and meet the standards.
- Use the lesson and follow-up activities to cover your math block each week.
- The unit easily extends to an entire month of instruction.
- It covers standards and skills that Kindergarten students need to learn before First Grade!
- It saves you time as the planning is done for you!
- Make math FUN with a variety of activities.
- Keep kids engaged and help them build important math skills and fluency!
- You will have ALL the materials you need to successfully teach (with no need to supplement)!



Teachers Love Mindful MATH

Proud to Be Primary

MATH

What do you notice about the two groups? What is the sorting rule?



What things do you see that look alike?

Brandi B.



This resource has really helped me introduce graphing to my kindergarten students. They love all of the activities and have been super engaged in the learning process thanks to this resource.

Our math units are enjoyed in thousands of classrooms worldwide!

Mindful MATH



See a Lesson Plan Up-Close

Quick, independent warm-up activities.

Mental math cards help build fluency.

Lesson can be easily broken down into mini-lessons and small-group instruction.

Use the lesson goal to guide the lesson.

Teach important math vocabulary.

Mindful MATH - Graphing & Sorting

Lesson 2 : Sort and Classify by One Attribute

Opening Activity	Students complete Task Card #2 using a pile of mixed crayons. OPTIONAL: Complete Journal Prompt #2 on a chart or math notebooks	
Mental Math	As a whole class, ask and answer the questions on Mental Math card #2. Look for things that are alike and match each other.	
Whole Group Lesson	<ul style="list-style-type: none"> *Teacher introduces lesson goal with *I Can* poster #2 and explain what attributes are (color, shape, size, and type - numbers, etc.). *Make a set of button cards in two different sizes. Put button cards together in a pocket chart sorting with color. Sort them again according to shape and then size. Have students take turns helping. *Give small groups of students a collection of small mixed up items. Ask them to pick one attribute and sort them according to that rule. Share their rule with the class. Sort again following a different rule. 	
Independent Practice	Students complete the printable pages (3 page options for lesson #2) by following the directions on the top of each page.	
Hands-On Activity	<p>CENTER #1: Practice sorting buttons, attributes blocks, shapes, and small manipulatives by color or size on different sorting mats.</p> <p>CENTER #2: Sort a group of picture cards into different groups following a sorting rule (color, shape, size, or type - animal, food, etc.).</p>	
Quick Checks	Meet with students on one-on-one in small groups. Complete Quick Check #2. (I can sort and classify objects by one attribute.)	
Lesson Goal	Quick Check	Lesson Materials
Sort by one attribute (color, shape, size, or other).	How do we sort? What is the sorting rule? What attribute do we use?	<ul style="list-style-type: none"> Task Card #2 Small assorted items in baskets Crayons Practice pages Journal Prompt #2 Mental Math card #2 Sorting mats *I Can* Poster #2 Picture cards 2 sets of button cards Quick Check #2 Pocket chart
Vocabulary sort, attribute, color, shape, size	Literature Sort It Out by Barbara Mariconda	

Lessons for the whole group include teacher part and student practice of skills.

Differentiated practice pages build understanding of concepts.

Hands-on math activities, games, and centers build math fluency.

Two assessment options included.

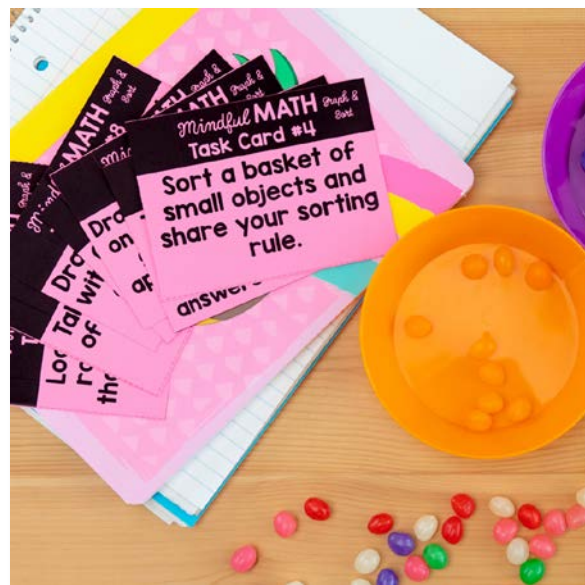
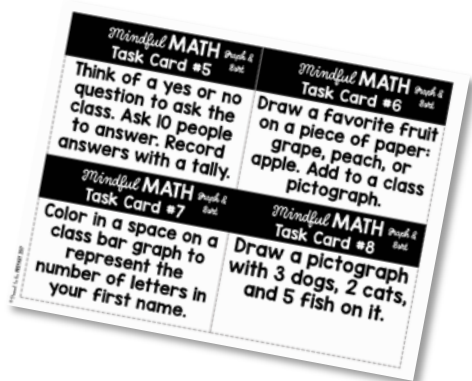
Helpful literature connection.

Mindful MATH



Warm-Up Task Cards

Task cards are a great warm-up to your math block. They provide a fun way to review and practice the skills taught in the lessons. Have students work independently, with a partner, or as a group to complete a quick math task using math manipulatives. Simply provide the prompt or task cards to get started!



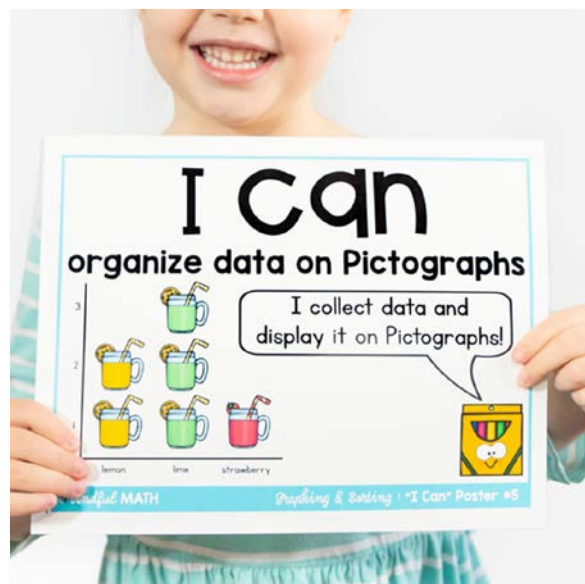
Mindful MATH



“I Can” Posters

“I Can” posters are included for every lesson in this unit.

They clearly describe and illustrate the mathematical concept in the lesson. They are helpful to lead your lesson and as a visual reminder for students. Read the prompts to students, discuss, and then replicate the examples together.

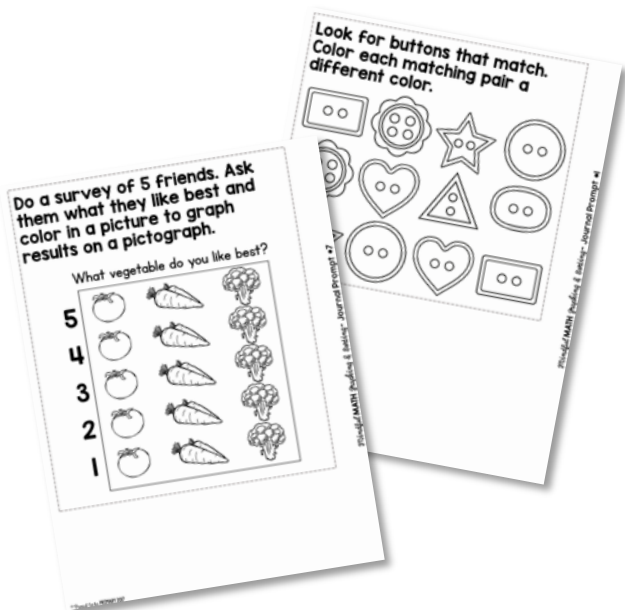


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Math Journals

After each lesson, provide each student with a math journal prompt to review the concept taught. Have students complete the math journal prompt independently and show their work and understanding in a notebook. No more coming up with engaging prompts; these are done for you!



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Mental Math Flashcards

Mental Math flashcards help build a child's mental math ability and fact fluency. Each lesson includes a creative way to use the cards, such as games, fact recall, and student call-out activities. These cards are also great to use as independent and small group review. Simply put them in a box for students to grab!

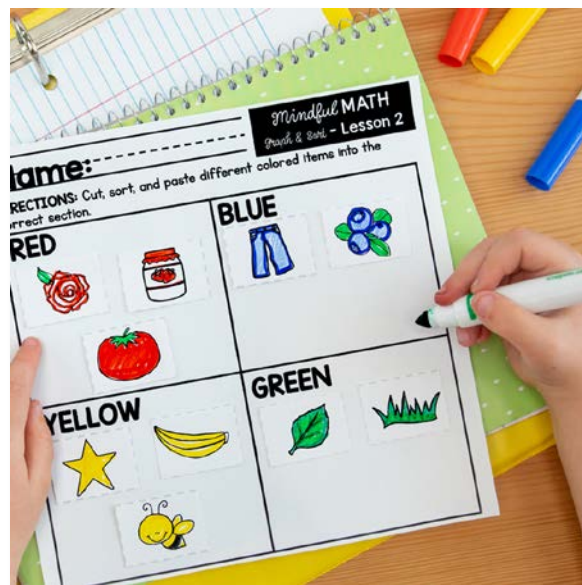
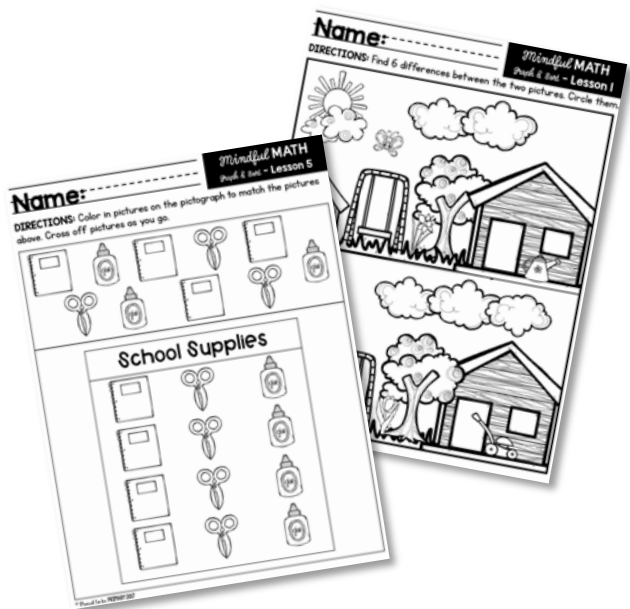


Mindful MATH



Practice Worksheets

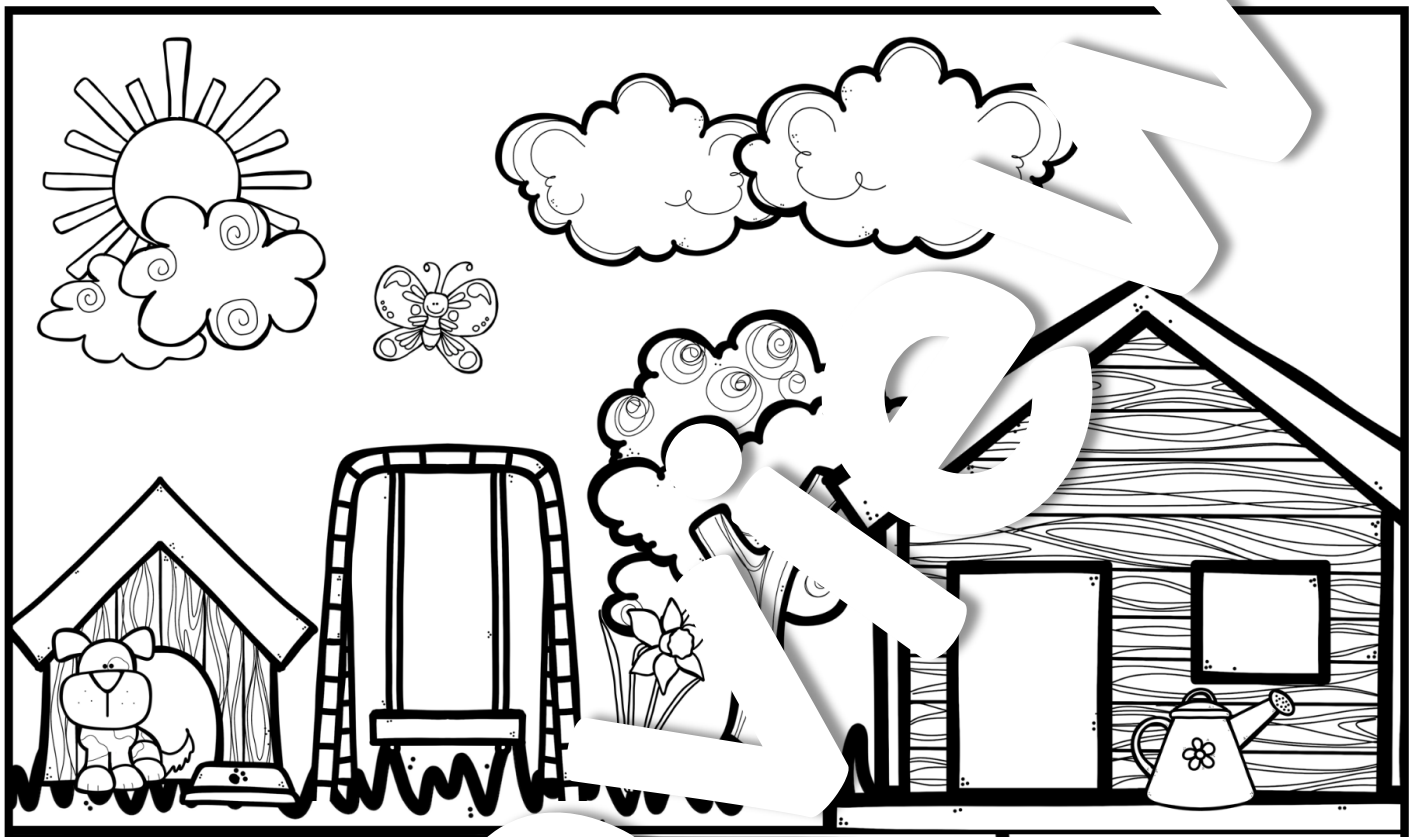
Each lesson includes differentiated worksheets for your students to practice their math skills. Select the no-prep worksheets you wish for your students to complete, and then assign. These versatile pages are engaging, straightforward, and fun to complete.



Name: _____

Mindful MATH
Graph & Sort - Lesson 1

DIRECTIONS: Find 6 differences between the two pictures. Circle them.

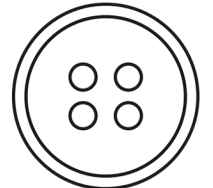
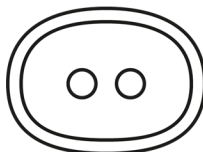
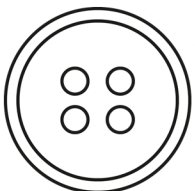
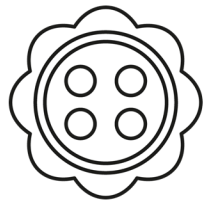
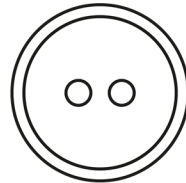
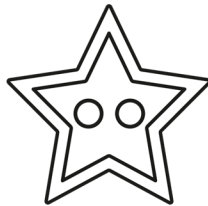


Name: _____

DIRECTIONS: Cut, sort, and paste buttons into the correct columns.

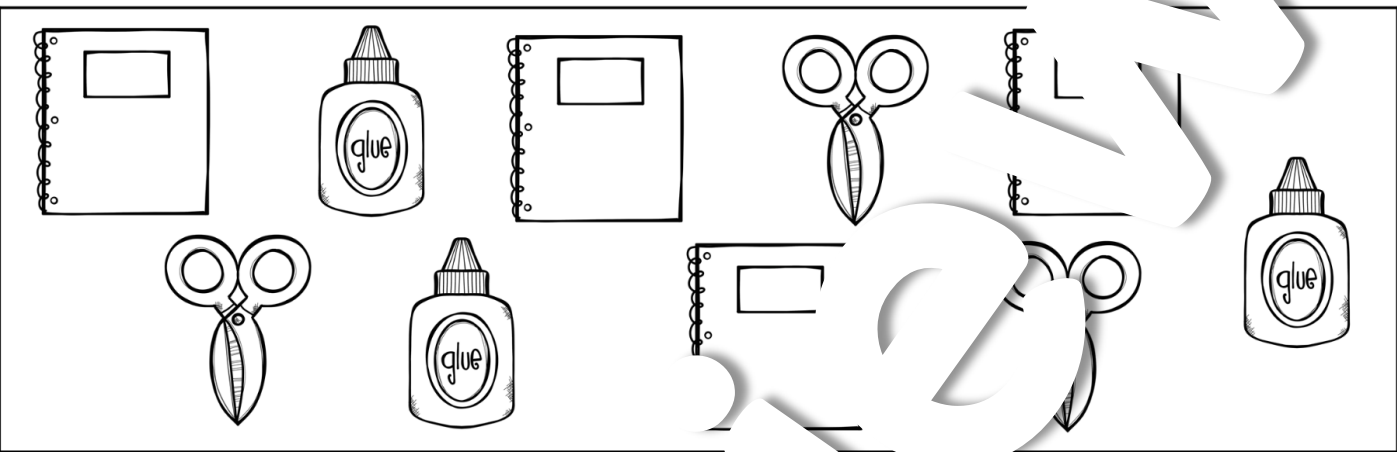
2 holes

4 holes

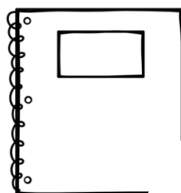


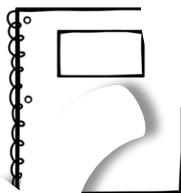


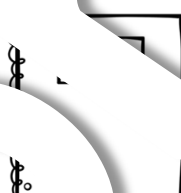


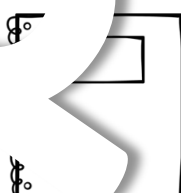




Name: _____

DIRECTIONS: Color in pictures on the pictograph to match the pictures above. Cross off pictures as you go.



School Supplies

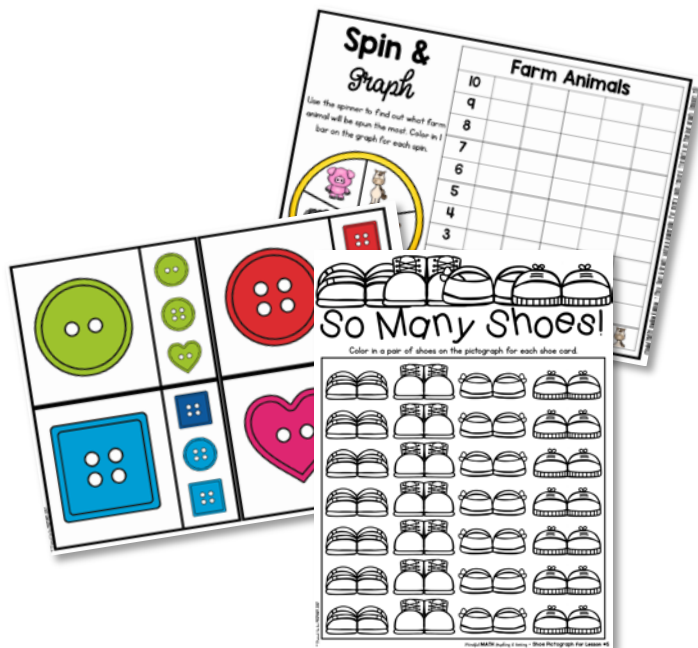
		
		
		
		

Mindful MATH



Math Centers & Games

There are a variety of fun and engaging math activities included for every lesson. These hands-on activities encourage focused math practice. They are great for small groups, partner games, and math centers. You will have the materials and instructions to implement the activities quickly and easily!

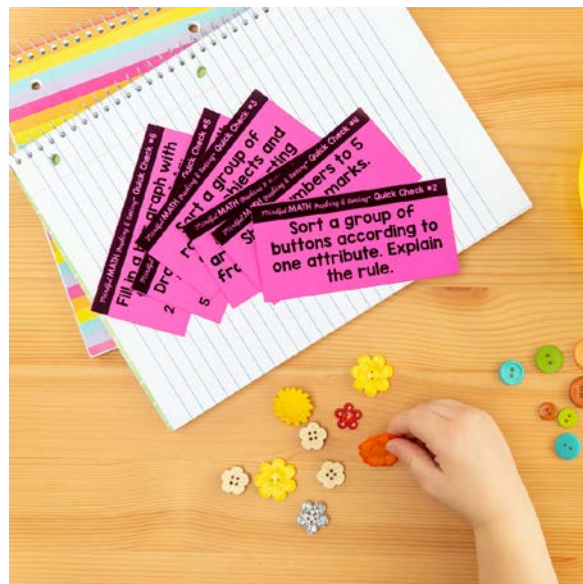
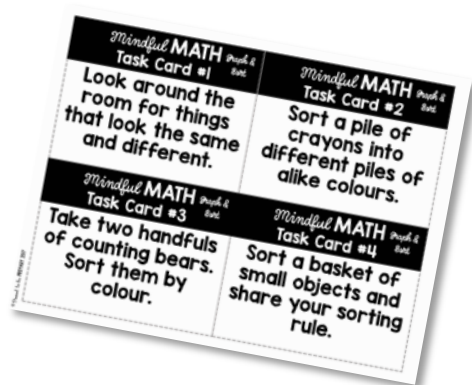


Mindful MATH



Math Assessments

There is a Quick Check summative assessment task card included for every lesson. Use the Quick Checks as a short activity for individuals or small groups to complete and show their understanding, while you observe and take note. Note: There are no printable tests included, however the practice worksheets can also work as assessments.



Use Mindful MATH for...

- ♥ Your Guided Math routine
- ♥ Whole group mini-lessons
- ♥ Small group instruction
- ♥ Supplement your math program
- ♥ Math warm-ups
- ♥ Math centers
- ♥ Assessments
- ♥ Sub-plans
- ♥ Home review



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Teachers Love Mindful MATH



Graphing Race

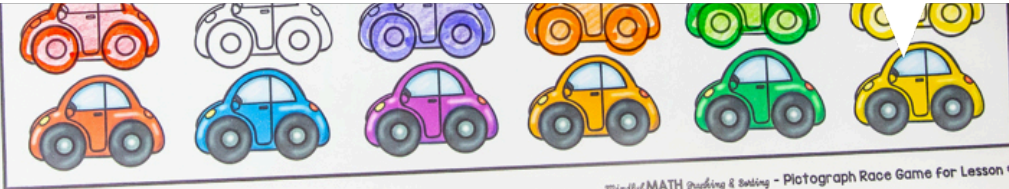


Debbie K.



I feel my students did so much better on math this year because I used mindful math. Thank you!

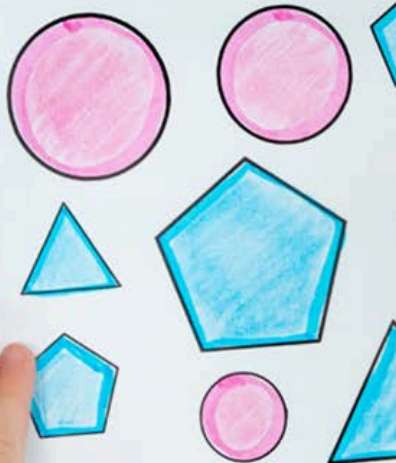
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Mindful MATH Graphing & Sorting - Photograph Race Game for Lesson #5

Our math units are enjoyed in thousands of classrooms worldwide!

Sort the items below
groups by coloring the
different colors.



I sorted by sides

Mindful MATH

aligns to the
standards

- K.MD.B.3

This unit aligns to Kindergarten Common Core standards and other state and Canadian standards.

Use it to teach the standards in the U.S. and Canada.

Mindful MATH - Graphing & Sorting

Overview

Correlated to the United States Common Core Standards for Kindergarten

Lesson 1	Alike and different. Finding matches.	K.MD.B.3
Lesson 2	Sort and classify by one attribute.	K.MD.B.3
Lesson 3	Sort and classify by two attributes.	K.MD.B.3
Lesson 4	The parts of a graph. Collect data using surveys and record tally marks.	K.MD.B.3
Lesson 5	Collect, organize, and display data on Pictographs.	K.MD.B.3
Lesson 6	Collect, organize, and display data on Bar Graphs.	K.MD.B.3
Lesson 7	Analyze, answer questions, and describe data on graphs.	K.MD.B.3
Lesson 8	Create a graph.	K.MD.B.3
Lesson 9	Probability of familiar, everyday events.	

Mindful MATH - Graphing & Sorting

Overview

Correlated to British Columbia, Canada's BIG Ideas for Kindergarten

Lesson 1	Alike and different. Finding matches.	
Lesson 2	Sort and classify by one attribute.	Repeating patterns with two or three elements
Lesson 3	Sort and classify by two attributes.	
Lesson 4	The parts of a graph. Collect data using surveys and record tally marks.	Concrete and pictorial graphs as a visual tool
Lesson 5	Collect, organize, and display data on Pictographs.	Concrete and pictorial graphs as a visual tool
Lesson 6	Collect, organize, and display data on Bar Graphs.	Concrete and pictorial graphs as a visual tool
Lesson 7	Analyze, answer questions, and describe data on graphs.	Concrete and pictorial graphs as a visual tool
Lesson 8	Create a graph.	Concrete and pictorial graphs as a visual tool
Lesson 9	Probability of familiar, everyday events.	Likelihood of familiar life events

Mindful MATH - Graphing & Sorting

Overview

Correlated to Ontario, Canada's Kindergarten Math Curriculum

Lesson 1	Alike and different. Finding matches.	20.5
Lesson 2	Sort and classify by one attribute.	20.5
Lesson 3	Sort and classify by two attributes.	20.5
Lesson 4	The parts of a graph. Collect data using surveys and record tally marks.	19.1
Lesson 5	Collect, organize, and display data on Pictographs.	19.1
Lesson 6	Collect, organize, and display data on Bar Graphs.	19.1
Lesson 7	Analyze, answer questions, and describe data on graphs.	19.1, 19.2
Lesson 8	Create a graph.	19.1, 19.2
Lesson 9	Probability of familiar, everyday events.	20.6
Lesson 10		

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Why

Proud to Be Primary

Mindful MATH

BACKGROUND

The Mindful Math curriculum incorporates focused math learning opportunities and many components within each unit. The activities are hands-on and mind-on, meaning students are actively working on math and engaging their minds. Mindful Math lessons encourage different ways of thinking and representing math concepts.

Mindful Math includes a variety of thoughtful lessons and activities to help meet the needs of learners and their learning styles. Students will have many opportunities to learn, practice, and review new strategies and develop math fluency through whole group warm-ups and lessons, mental math, journals, centers, games, and assessments.

Mindful Math was created to give teachers a comprehensive math curriculum that engages minds and leaves students knowledgeable and fluent in math concepts. The curriculum aligns to the U.S. Common Core standards, the Canadian math curriculums in B.C. and Ontario, as well as many other math curriculums around the world.

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