

Mindful MATH

Proud to Be Primary

Algebra and Coding



3rd Grade Comprehensive Math Curriculum

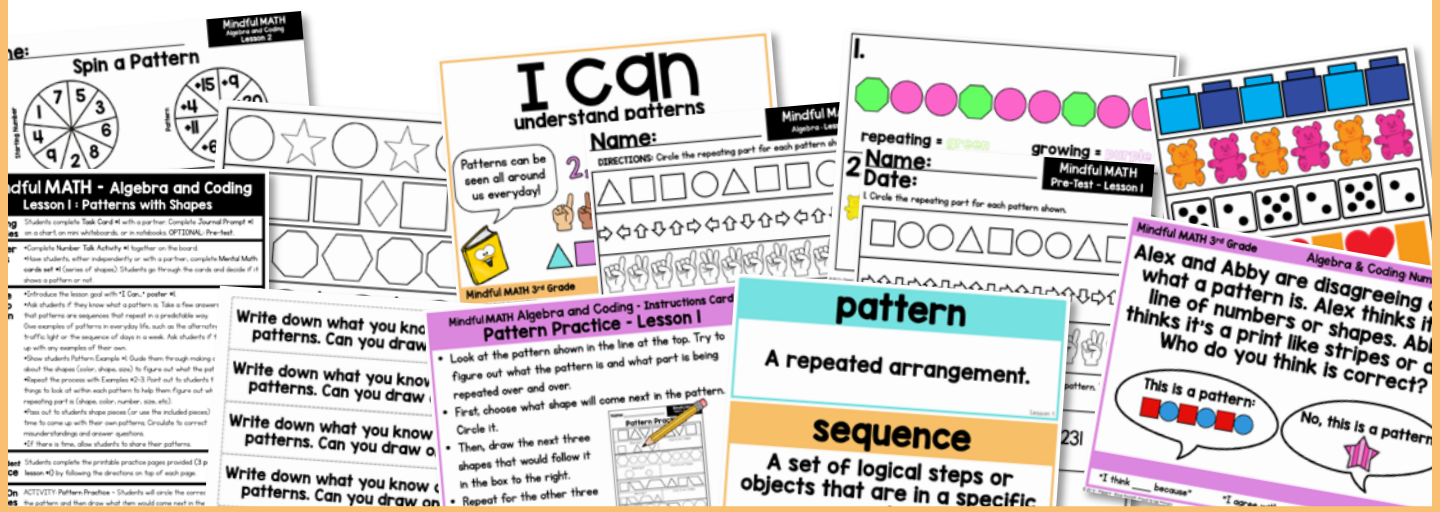
Mindful MATH



Algebra and Coding

What is Included in this Comprehensive Unit:

- ♥ Standard-based lessons
- ♥ 10 detailed lesson plans
- ♥ Practice worksheets
- ♥ Warm-up task cards
- ♥ Whole group number talks
- ♥ Discussion questions
- ♥ Vocabulary posters
- ♥ "I Can" math standard posters
- ♥ Mental Math flash cards
- ♥ Math journal prompts
- ♥ Math games and centers
- ♥ Instruction sheets activities
- ♥ 3 assessments: Quick Check task cards, pre- & post-tests for each lesson, & unit test



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Algebra and Coding

What's included in this 3rd grade unit:

Curriculum Map &
Unit Overview

Unit	Topic
Unit 1	Numbers to 1000
Unit 2	Addition & Subtraction
Unit 3	Multiplication
Unit 4	Division
Unit 5	Fractions
Unit 6	Time & Measurement
Unit 7	Geometry
Unit 8	Data & Probability
Unit 9	Money & Financial Literacy
Unit 10	Algebra & Coding

Lesson	Topic
Lesson 1	Patterns with Shapes
Lesson 2	Patterns in Addition and Subtraction
Lesson 3	Patterns in Multiplication and Division
Lesson 4	Classifying Patterns
Lesson 5	Identifying and Extending Patterns
Lesson 6	Patterns in the Real World
Lesson 7	Patterns in Time, Length, and Weight
Lesson 8	Patterns in Area and Perimeter
Lesson 9	Introduction to Coding
Lesson 10	Creating Code and Problem Solving

Detailed Lesson Plans

Mindful MATH - Algebra and Coding Lesson 1 - Patterns with Shapes	
Opening Activities	Students complete Task Card #1 with a partner. Students should bring #1 on a sheet or use whiteboards or, if available, OPTICOM. Pre-test.
Number Talks	Complete Number Talk Activity #1 together on the board. When students are confident or with a partner, complete Mental Math cards set #1 (Series of shapes). Students go through the cards and decide if it shows a pattern or not.
Whole Group Lesson	• Distribute the lesson with "I Can" poster to all students if they know what a pattern is. Take a few minutes then explain that patterns are sequences that repeat in a predictable way. Use examples of patterns in everyday life, such as the alternating colors on a traffic light or the sequence of days in a week. Ask students if they can come up with any examples of their own. • Give students Pattern Examples #1. Guide them through reading observations about the shapes (color, shape, size) to figure out what the pattern is. Repeat the process with Examples #2-5. Lead out to students the different steps to look at what each pattern has to help them figure out what the repeating part is (shape, color, number, size, etc.). • Give out to students shape paper (or use the included paper) and give them time to come up with their own patterns. Encourage to connect number/symbols and answer questions. • Off to work in time, allow students to draw their patterns.
Independent Practice	Students complete the printable practice pages provided (3 page options for lesson #1) by following the directions on top of each page.
Hands-On Activities	ACTIVITY: Patterns Practice - Students will create the current lesson to continue the pattern and then what they would come next in the pattern. EXTENSION: Patterns or Paper - Students will sort cards into 2 categories based on whether they show a pattern or not.
Assess	Start and have students complete Quick Check #1 and/or a post-lesson assessment (I can understand patterns).

Vocabulary Posters



"I Can" Posters



Task Cards



Mental Math Cards



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Algebra and Coding

What's included in this 3rd grade unit:

Number Talks



Worksheets & Answer Keys



Journal Prompts



Hands-On Activities



Discussion Questions

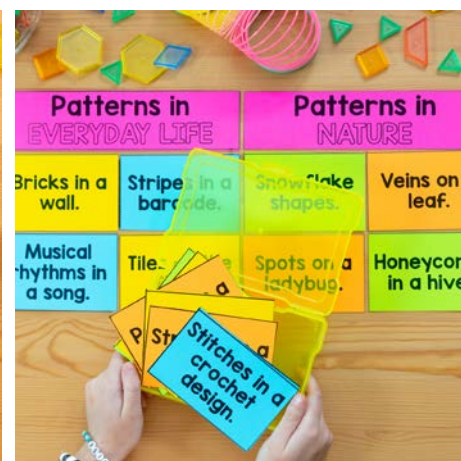


Assessments & Answer Keys



This Mindful MATH unit covers

- ♥ review of patterns
- ♥ patterns in addition & subtraction
- ♥ patterns division & multiplication
- ♥ naming and extending patterns
- ♥ patterns in the real world
- ♥ writing and altering code and more!



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 each 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 Third Grade students need to learn before Fourth Grade!
- It saves you time as the planning is done for you!
- Make math FUN with a variety of activities, centers, and games.
- 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)!



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See a Lesson Plan Up-Close

Quick, independent warm-up activities.

Mental math cards help build fluency & Number Talks encourage peer interaction.

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 - Algebra and Coding Lesson 1 : Patterns with Shapes	
Opening Activities	Students complete Task Card #1 with a partner. Complete Journal Prompt #1 on a chart, on mini whiteboards, or in notebooks. OPTIONAL: Pre-test.
Number Talks	<ul style="list-style-type: none"> •Complete Number Talk Activity #1 together on the board. •Have students, either independently or with a partner, complete Mental Math cards set #1 (series of shapes). Students go through cards and decide if it shows a pattern or not.
Whole Group Lesson	<ul style="list-style-type: none"> •Introduce the lesson goal with "I Can..." prompt. •Ask students if they know what a pattern is. Take a few answers and explain that patterns are sequences that repeat in a predictable way. Give examples of patterns in everyday life such as the alternating colors on a traffic light or the sequence of days of the week. Ask students if they can come up with any examples of their own. •Show students Pattern Example #1. Guide them in making observations about the shapes (color, shape, size) and figure out what the pattern is. •Repeat the process with Example #2. Encourage students to identify the different things to look at in each pattern to help them figure out what the repeating part is (shape, color, number, size). •Pass out to students shape pieces (included pieces) and give them time to complete their own patterns. Circulate to correct misunderstandings and answer questions. •If there is time, allow students to share their patterns.
Independent Practice	Students complete the independent practice pages provided (3 page options for lesson). Follow the directions at the top of each page.
Hands-On Activities	<p>Activity: Pattern Practice - Students will circle the correct item to continue the pattern and draw what item would come next in the pattern.</p> <p>Activity: Pattern Sort - Students will sort cards into 2 categories based on whether they show a pattern or not.</p>
Assess	Meet and hear from students complete Quick Check #1 and/or a post-test assessment to understand patterns).

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.

Quick check, pre and post-tests, and a unit test are included.

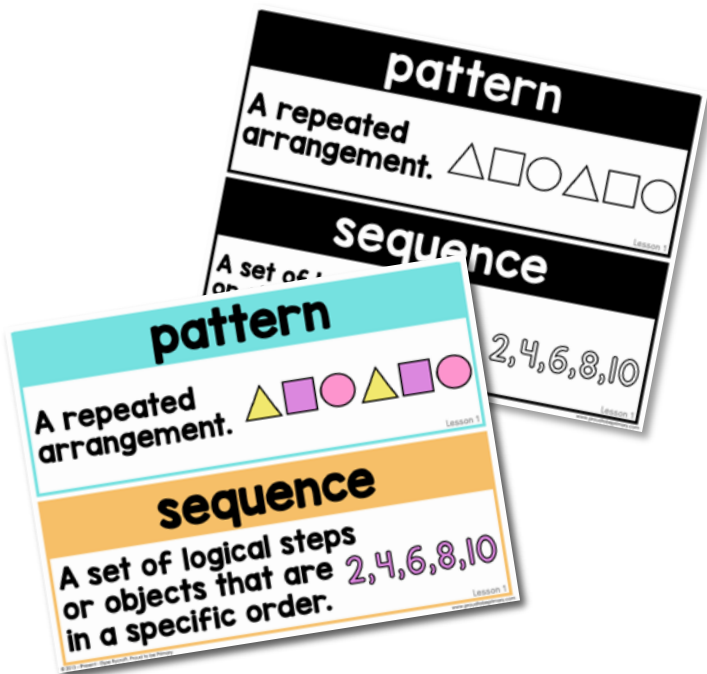
Discussion questions for whole or small group.

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Vocabulary Posters

Each lesson has vocabulary words that are important for students to understand. You are provided with two types of vocabulary posters (with visuals and without) in both black and white and color for teachers to display in the classroom or on the board for student reference during and after lessons.



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Discussion Questions

Each lesson has 3 discussion questions that can be used for small group or whole group instruction. The discussion questions are in poster form to be printed for teacher reference or projected for the students to see. You can also find questions on each lesson plan.

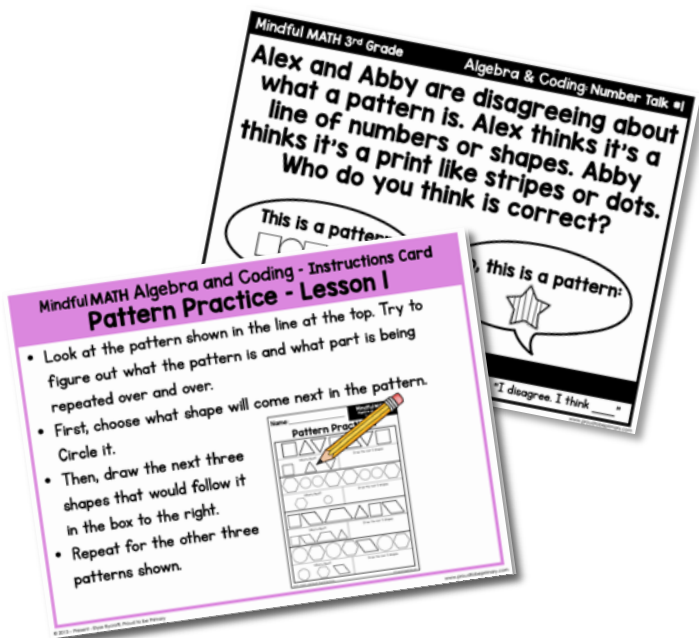


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Number Talks

Number Talks encourage independent thinking while building a student's ability to express their own ideas. Each lesson comes with an open ended math question that can be used for a whole or small group discussion. Speaking prompts are also included on each number talk. An extra PowerPoint file is included for you to project to your class.

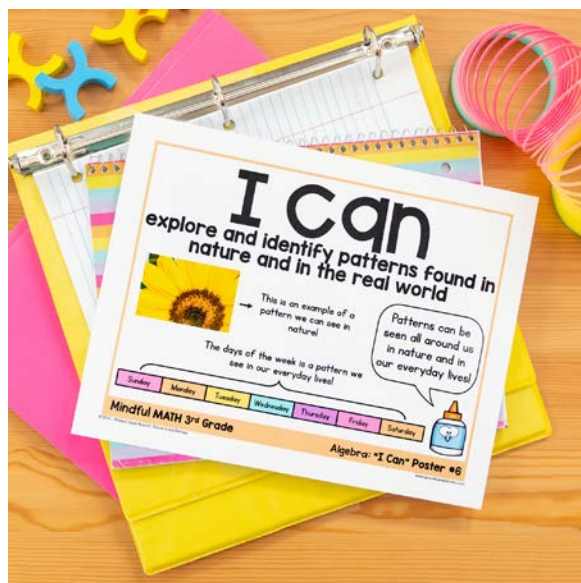
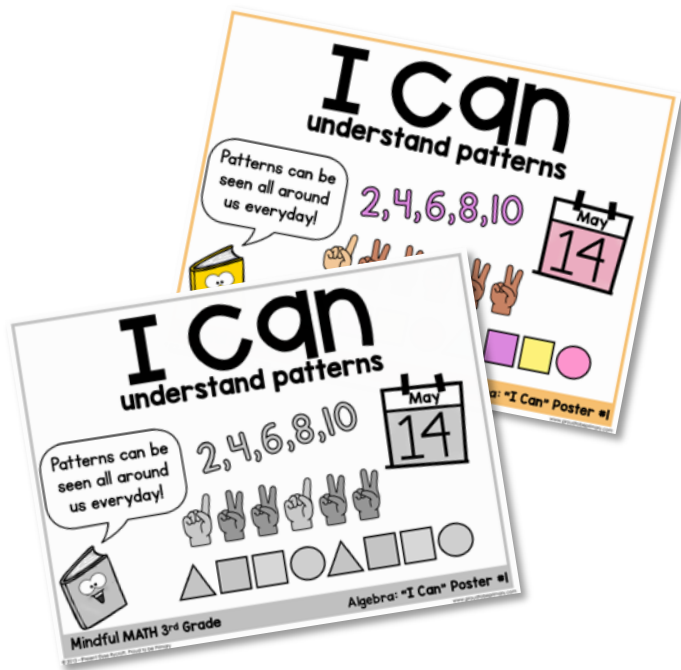


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“I Can” Posters

“I Can” concept posters are included for every lesson in this unit. They clearly describe and illustrate the mathematical concept in the lesson and align to the standards being taught. 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.

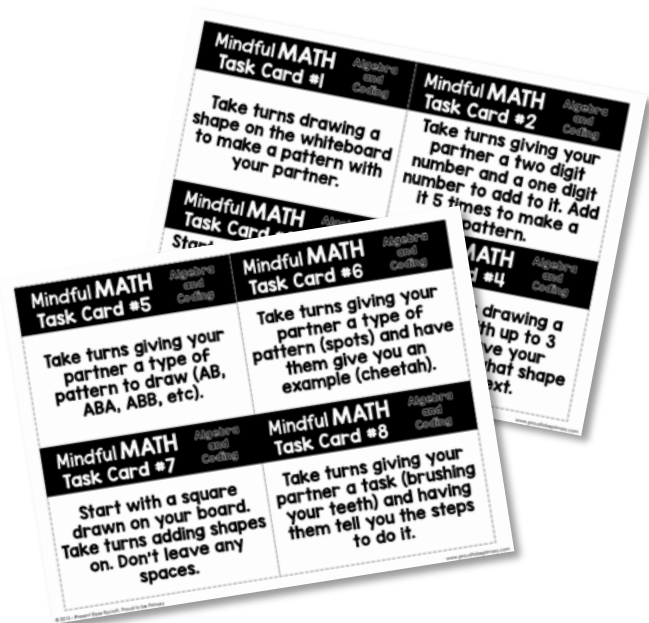


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Warm-Up Task Cards

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.

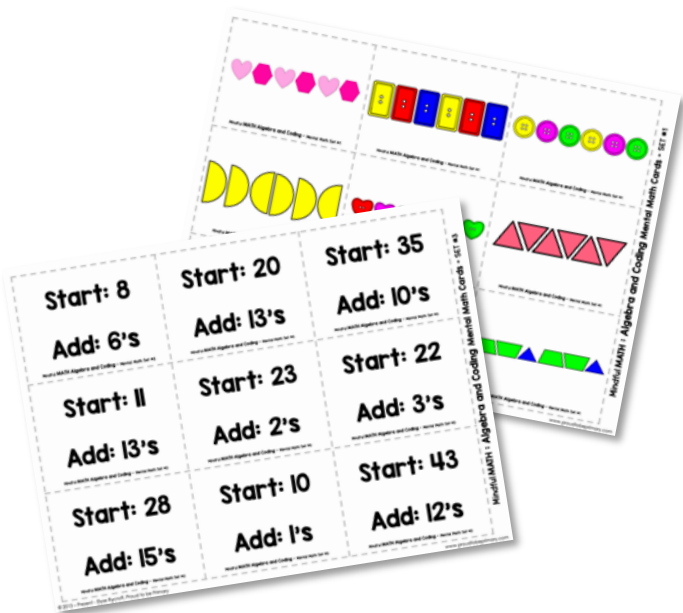


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Mental Math Flash Cards

Mental Math flash cards 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!

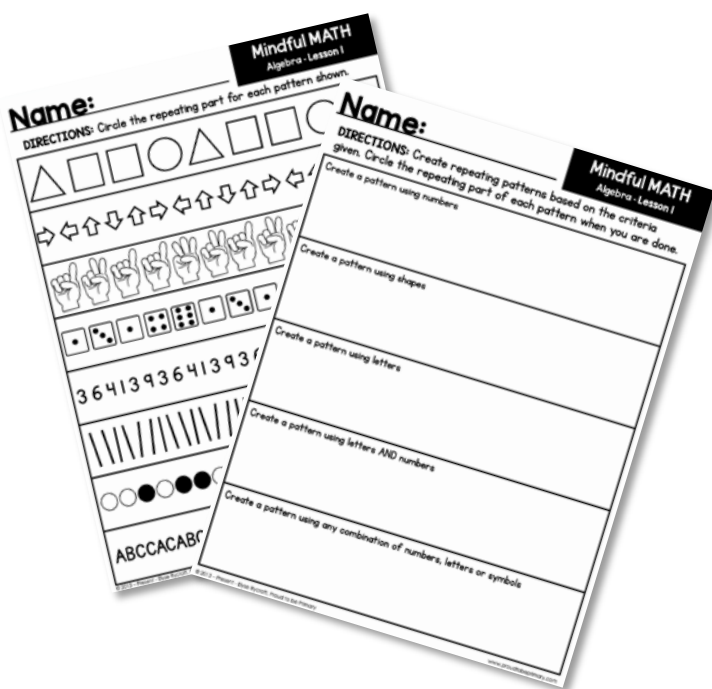


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Practice Worksheets

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.



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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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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. Instruction cards for each activity are also included!

MindfulMATH Algebra and Coding - Instructions Card
Pattern Practice - Lesson 1

- Look at the pattern shown in the line at the top. Try to figure out what the pattern is and what part is being repeated over and over.
- First, choose what shape will come next in the pattern. Circle it.
- Then, draw the next three shapes that would follow it in the box to the right.
- Repeat for the other three patterns shown.



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3 Types of Assessments

There are three assessments included for every lesson: A 2-page pre-test and post-test, as well as a Quick Check assessment task card. The post-test help provide you with data about what your student knows and if they have acquired the necessary skills they need to know. Use the Quick Checks as a short activity for individuals or small groups to complete and show their understanding. There is also a final unit test.

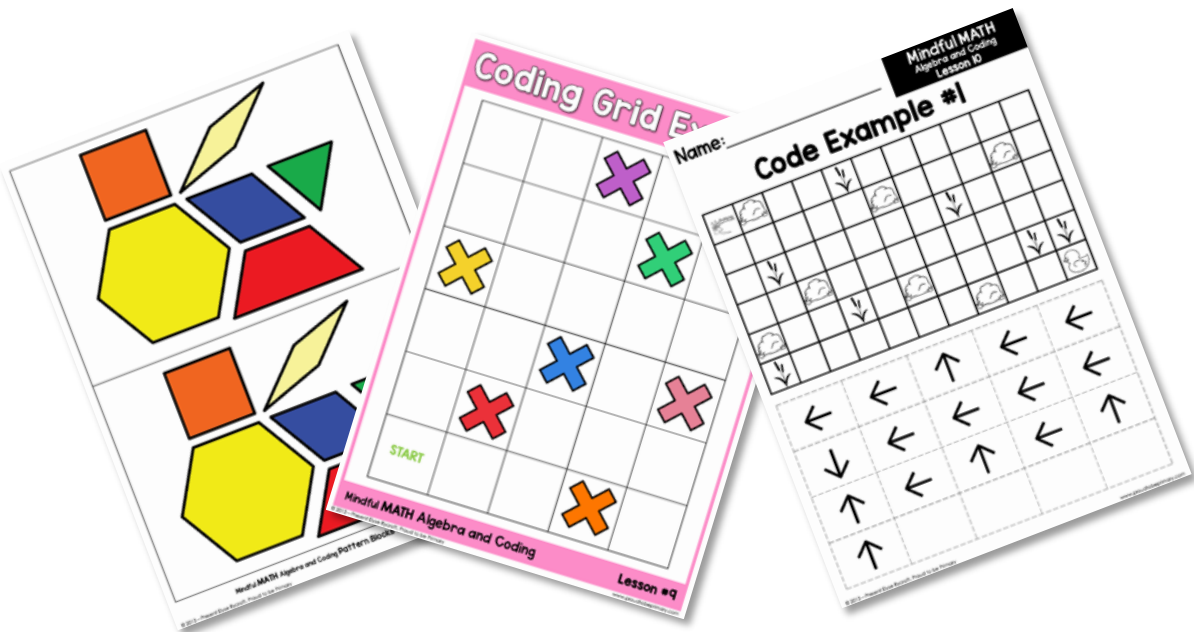


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Lesson Materials

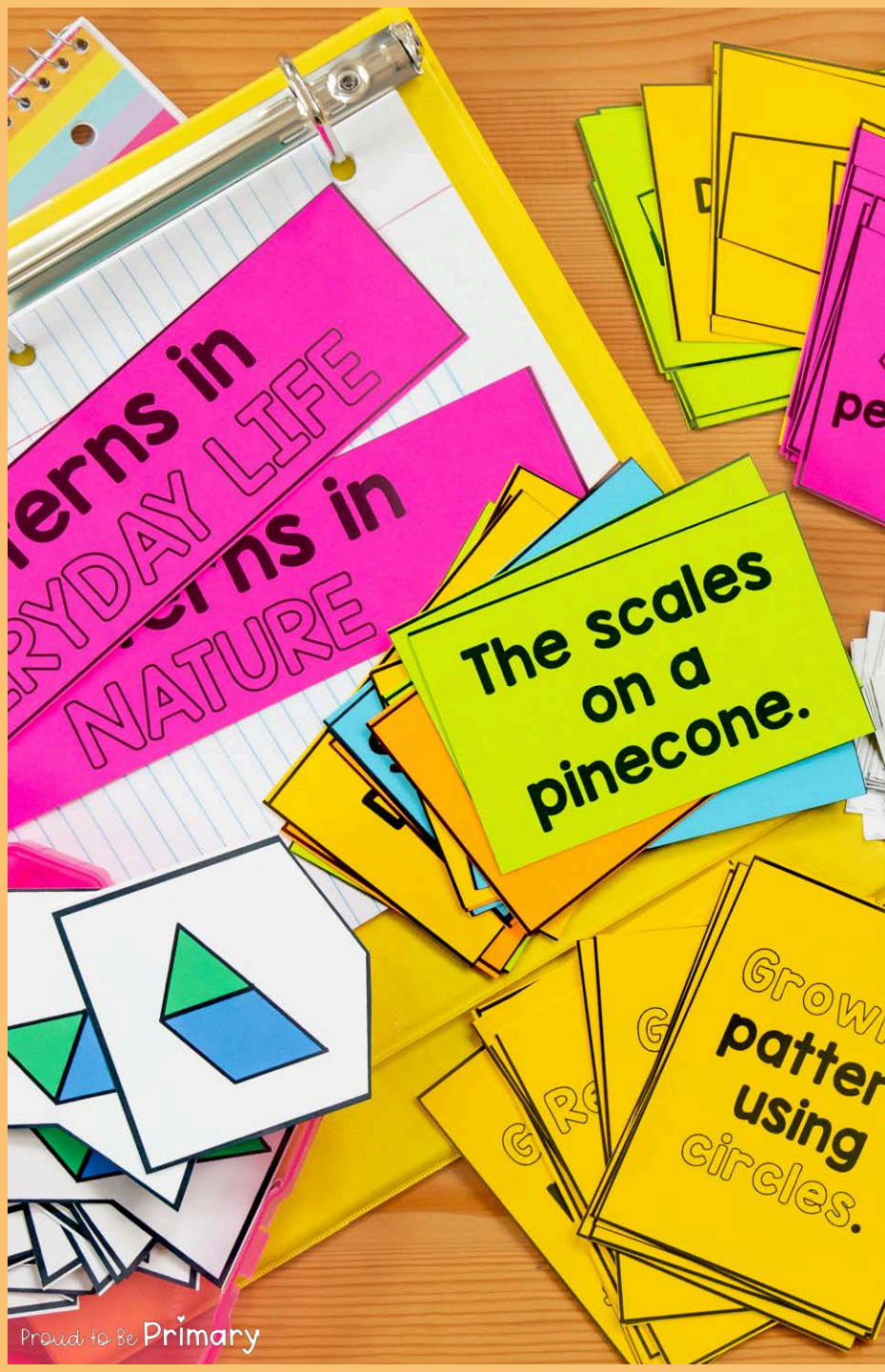
Everything needed to successfully teach the lessons included in this pack! Some lessons also have student friendly posters of important topics that can be displayed in the classroom. Other lessons may require math tools and we have provided you with printable versions of some of these to make teaching easier.



Use Mindful MATH for...

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





Mindful MATH

aligns to the
standards

♥ 3.OA.D.9

Covers additional standards and topics that are not third grade specifically, but provides valuable learning and review.

This unit aligns to Canadian learning standards for patterns & pattern rules.

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

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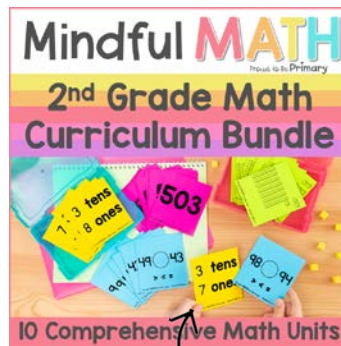
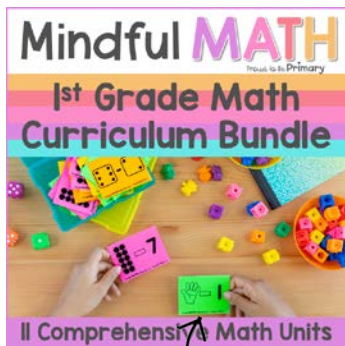


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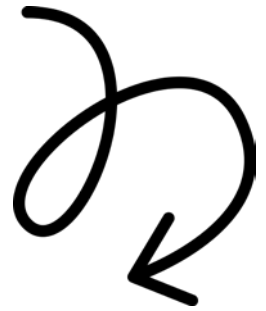


Click the images to see the Mindful Math curriculum
BUNDLES with **EVERYTHING** you need for the whole year!

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