

Mindful MATH

Proud to Be Primary

2-digit Subtraction



2nd Grade Comprehensive Math Curriculum

Mindful MATH



2-Digit Subtraction

What's included in this 350+ page unit:

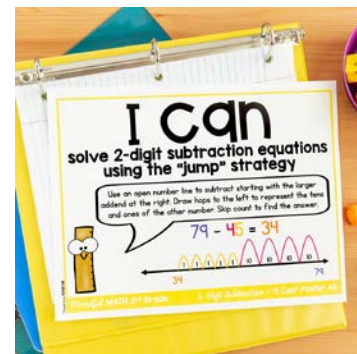
Detailed Lesson Plans

Mindful MATH - 2-Digit Subtraction		
Lesson 3 - Subtract 2-Digit Numbers using Ten Frames		
Opening Activities	Students complete Task Card #1 with ten frames. Question: How many more do you need to subtract? or as a retort: OPPOSITE! How fast?	
Mental Math	As a whole class practice, students take turns reading 100 problems to 1000. One student reads and another student calls out what is 10 less. 100 equals 1000.	
Whole Group Lesson	Students listen to the story 'I Can't' poster #3 and hear the ten frame. Students subtract 2-digit numbers on an anchor chart with ten frames drawn. Green and ten frames and dots on the ten frame to subtract. One equation for students to draw and solve on the ten frame. Share answers. How students take notes and practice on their own. Subtract 2-digit subtraction equations with blocks with them to solve equations together with concrete materials. (Drawing a number on the ten frames with markers and connecting ten frames and number to subtract.) Start first with examples with no regrouping. How to record the equation on their board. After they have had enough practice introduce "regrouping" and borrowing from a ten to solve.	
Independent Practice	Students complete the printable practice pages provided (3 pages) for 10 minutes. Use 100 cubes to solve the equations on each page.	
Hands-On Activities	1000000: Record the numbers represented on the top and subtract on the bottom given. Record the answers. 1000000: Solve 2-digit equations using the ten frame mats. (Other formats and draw or use counters to solve.)	
Quick Checks	Meet with students complete Quick Check #3 and/or repeat last assessment 10 or solve 2-digit subtraction equations using ten frames?	
Lesson Goal	Questions	Lesson Materials
Can you explain to solve 2-digit subtraction equations?	How many ten frames? How many are left? How many groups of ten?	Task Card #3 Ten frames Base 10 blocks Number lines Ten frame mats Ten frame cards Mindful Math unit #3 Ten frames mats I Can't poster #3 Quick Check #3
Vocabulary		
ten frame, subtract, take away		

Booklists



Posters & Materials



Task Cards



Math Journals



Mental Math Cards



Mindful MATH



2-Digit Subtraction

What's included in this 350+ page unit:

Worksheets



Games



Hands-On Activities



Assessments



Answer Keys

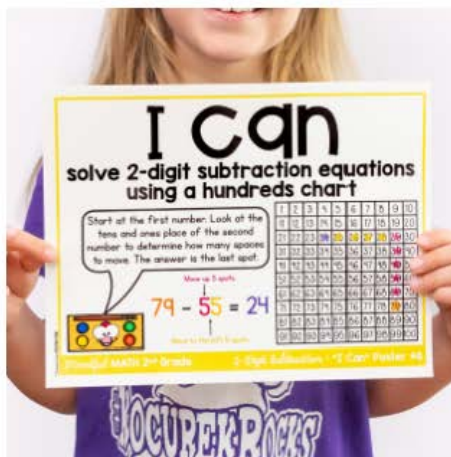


Centers



This Mindful MATH unit covers

- ♥ Fluently subtract within 20
- ♥ Mentally subtract 10
- ♥ Subtract using ten frames, base ten blocks, & drawings
- ♥ Jump strategy
- ♥ Split strategy
- ♥ Shortcut strategy
- ♥ Using a hundreds chart to subtract
- ♥ Traditional algorithm
- ♥ Solving 1-2 step word problems



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 Second Grade students need to learn before Third 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

Kimberly H.



I love how this resource is set up! It has everything you need for fun and engaging lessons and activities for the students. Thank you!

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 - 2-Digit Subtraction	
Lesson 3 : Subtract 2-Digit Numbers using Ten Frames	
Opening Activities	Students complete Task Card #3 with ten frames. Complete Journal Prompt #3 on a chart, mini whiteboard, or in a notebook. OPTIONAL: Pre-test.
Mental Math	As a whole class, practice Mental Math cards set #2 (numbers to 100). Show a number card and have students call out what is 10 less (-10) quickly.
Whole Group Lesson	<ul style="list-style-type: none"> • Introduce lesson goal with "I Can..." poster #3. Teach how to use ten frames to subtract 2-digit numbers on an anchor chart with ten frames drawn. Cross out ten frames and dots on the ten frames to subtract. Give equations for students to draw and cross out to subtract. Share answers. • Give students ten frames and counters or beads to solve 2-digit subtraction equations with. Work with students to solve equations together with concrete materials (showing a number on ten frames, using counters and removing ten frames and counters to solve). Start first with examples with no regrouping. Have them record the equation on the ten frame. After they have had enough practice, introduce regrouping and borrowing ones from a ten frame.
Independent Practice	Students complete the available practice pages provided (3 page options for lesson #3) by following the directions on each page.
Hands-On Activities	<p>CENTER #1: Record the number given on the card and subtract the number given, record the answers.</p> <p>CENTER #2: Solve 2-digit equations using the ten frame mats. Either laminate and draw or use counters to solve.</p>
Quick Checks	Meet and have students complete Quick Check #3 and/or a post-test assessment (a 2-digit subtraction equations using ten frames.)
Lesson Goal	Use ten frames to solve 2-digit subtraction equations.
Vocabulary	ten frame, subtract, take away
Questions	How many ten frames? How many are left? How many groups of ten?
Lesson Materials	<ul style="list-style-type: none"> Task Card #3 Ten frames Journal Prompt #3 Pre-test & post test Mental Math set #2 "I Can" poster #3 Snap cubes Counters Boards & markers Practice Pages Ten frame cards Ten frame mats Quick Check #3

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.

Three assessment options included.

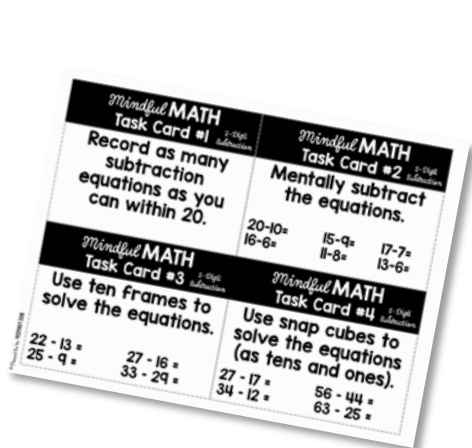
Helpful literature connection.

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

Concept 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.

I Can
solve 2-digit subtraction equations
using a hundreds chart

Start at the first number. Look at the tens and ones place of the second number to determine how many spaces to move. The answer is the last spot.

Move up 5 spots.
 $79 - 55 = 24$
Move to the left 5 spots.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Mindful MATH 2nd Grade
2-Digit Subtraction: "I Can" Poster #8

I Can
solve 2-digit subtraction equations
using a hundreds chart

Start at the first number. Look at the tens and ones place of the second number to determine how many spaces to move. The answer is the last spot.

Move up 5 spots.
 $79 - 55 = 24$
Move to the left 5 spots.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

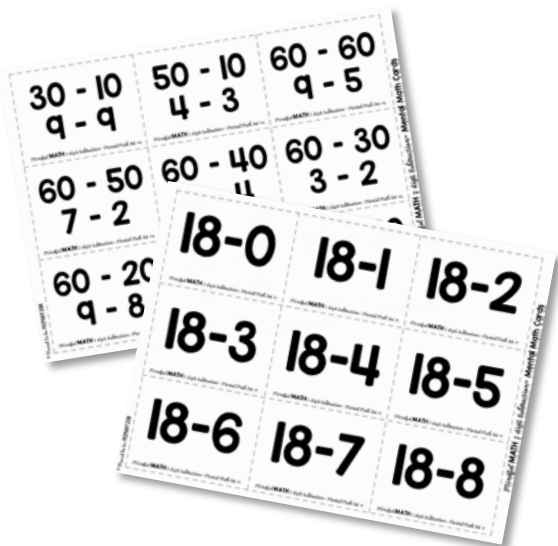
Mindful MATH 2nd Grade
2-Digit Subtraction: "I Can" Poster #8

Mindful MATH



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!

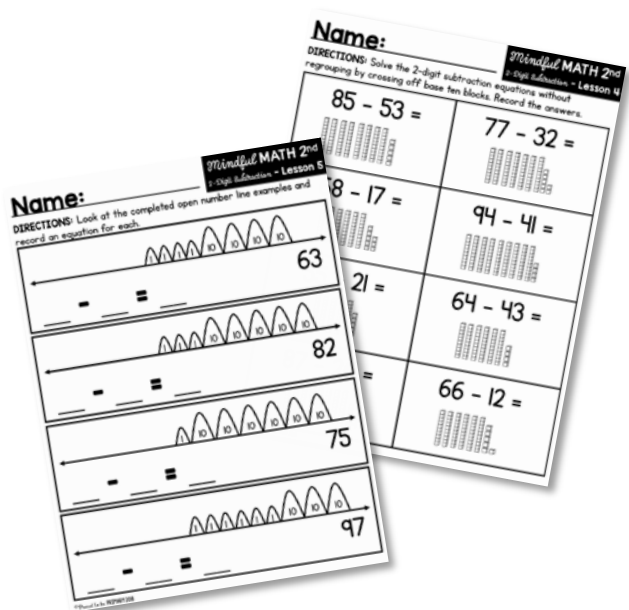


Mindful MATH



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: _____

DIRECTIONS: Use a hundreds chart to solve the equations. Start in where you start, how you move, and where you end up. Record the answer.

$37 - 25 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$68 - 43 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$92 - 74 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$29 - 15 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name: _____

DIRECTIONS: Look at the completed open number line examples and record an equation for each.

A number line with arrows at both ends. It has 9 tick marks. The first 8 tick marks are grouped by a bracket above them with the number '10' written below. The last tick mark is also grouped by a bracket above it with the number '10' written below. To the right of the number line is the number '94'. Below the number line is a subtraction equation template: $\underline{\quad} - \underline{\quad} = \underline{\quad}$.

A number line with arrows at both ends. It has 7 tick marks. The first 6 tick marks are grouped by a bracket above them with the number '10' written below. The last tick mark is also grouped by a bracket above it with the number '10' written below. To the right of the number line is the number '77'. Below the number line is a subtraction equation template: $\underline{\quad} - \underline{\quad} = \underline{\quad}$.

A number line with arrows at both ends. It has 7 tick marks. The first 2 tick marks are grouped by a bracket above them with the number '10' written below. The next 5 tick marks are each grouped by a bracket above them with the number '10' written below. To the right of the number line is the number '78'. Below the number line is a subtraction equation template: $\underline{\quad} - \underline{\quad} = \underline{\quad}$.

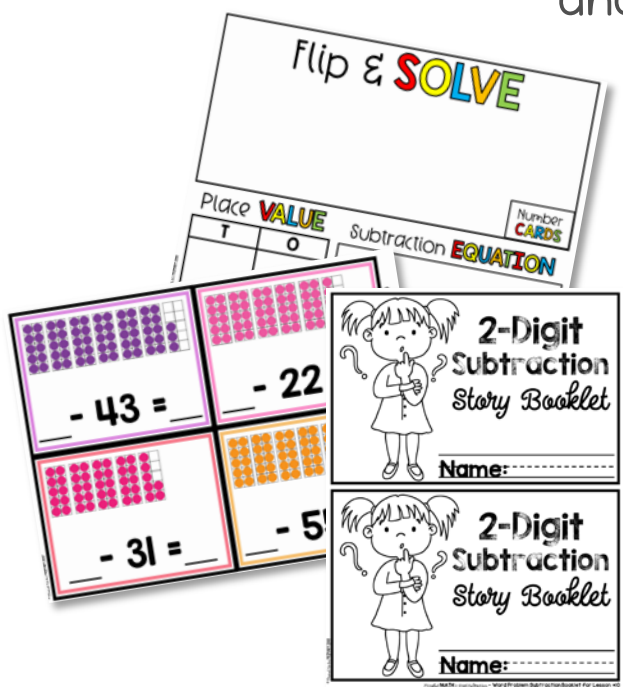
A number line with arrows at both ends. It has 6 tick marks. The first 4 tick marks are grouped by a bracket above them with the number '10' written below. The last 2 tick marks are each grouped by a bracket above them with the number '10' written below. To the right of the number line is the number '61'. Below the number line is a subtraction equation template: $\underline{\quad} - \underline{\quad} = \underline{\quad}$.

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!

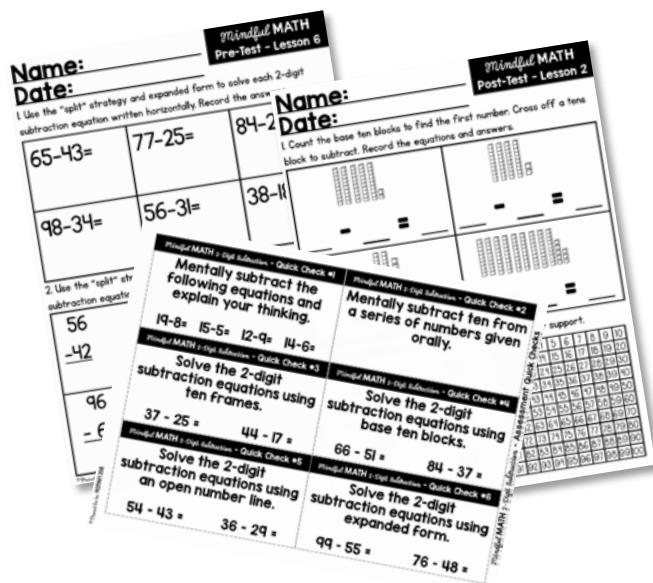


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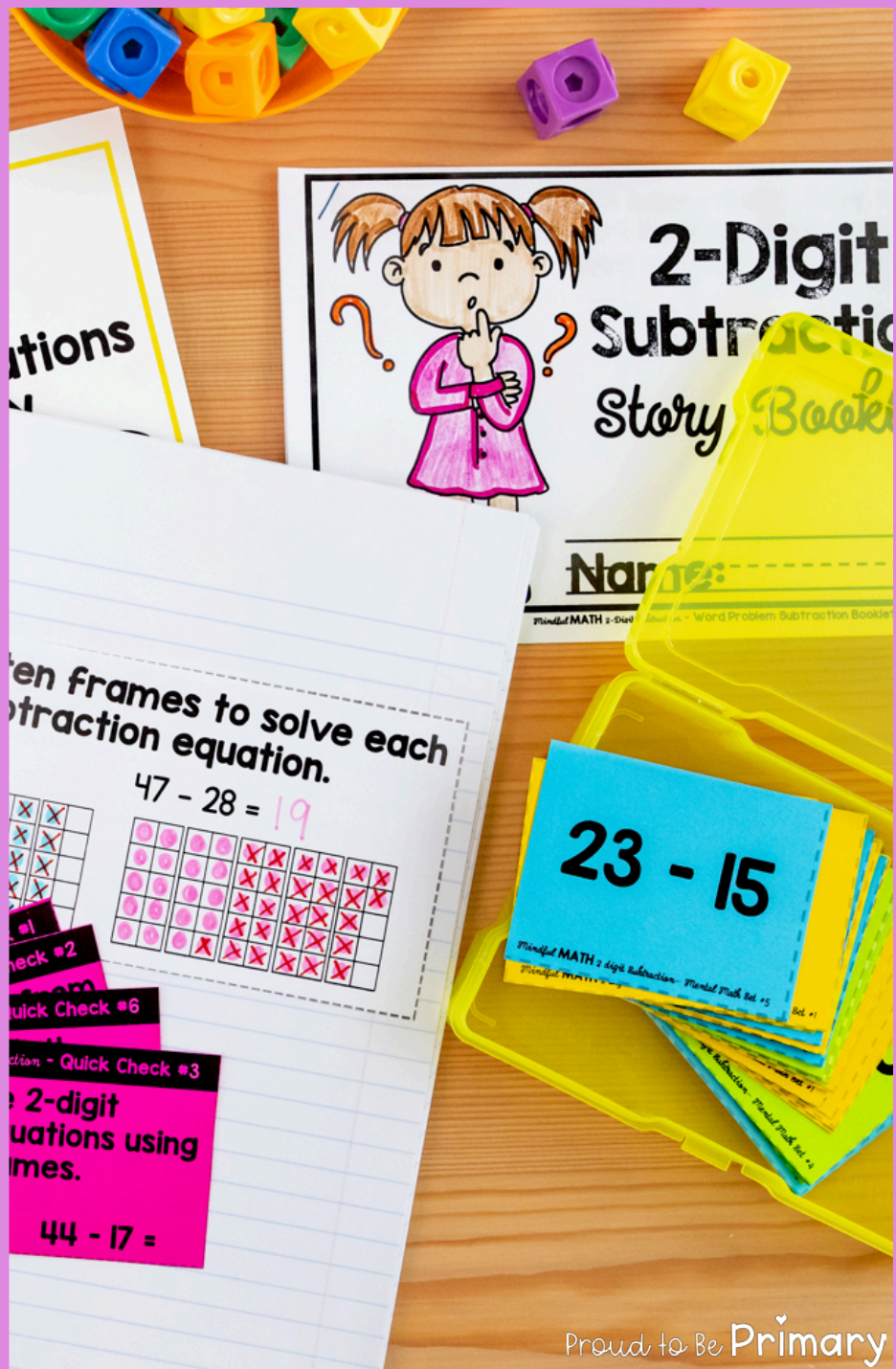
Math Assessments

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.



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



Teachers Love Mindful MATH

Stacey M.



Love this resource! The kiddos really enjoy the hands on activities. The organization is so helpful and easy to follow. Thank you :)

Our math units are enjoyed in thousands of classrooms worldwide!



Mindful MATH

aligns to the
standards

- 2.OA.A.1
- 2.OA.B.2
- 2.NBT.B.5
- 2.NBT.B.7
- 2.NBT.B.9

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

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

Mindful MATH 2nd Grade

2-Digit Subtraction - Overview

Correlated to the United States Common Core Standards

Lesson 1	Fluency subtract with mental math strategies within 20	2.OA.B.2
Lesson 2	Mentally subtract 10 from a number	2.NBT.B.8
Lesson 3	Subtract 2-digit numbers using ten frames	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 4	Subtract 2-digit numbers using base ten blocks and drawings	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 5	Use the "Jump Strategy" to solve 2-digit subtraction (number line)	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 6	Use the "Split Strategy" to solve 2-digit subtraction (expanded form)	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 7	Use the "Shortcut Strategy" to solve 2-digit Subtraction (compensation)	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 8	Use a Hundreds Chart to solve 2-digit subtraction	2.NBT.B.5 2.NBT.B.7 2.NBT.B.9
Lesson 9	Solving 2-digit subtraction using the traditional algorithm	Not mentioned but provides practice in a traditional method.
Lesson 10	Solving 1 to 2-step word problems	2.OA.A.1

Mindful MATH 2nd Grade

2-Digit Subtraction - Overview

Correlated to the NEW Ontario, Canada's Grade 2 Math Curriculum

Lesson 1	Fluency subtract with mental math strategies within 20	B2.2 recall subtract. facts to 20 B2.3 use mental math strategies to subtract whole numbers up to 50
Lesson 2	Mentally subtract 10 from a number	B2.3 use mental math strategies to subtract whole numbers up to 50, and explain the strategies used
Lesson 3	Subtract 2-digit numbers using ten frames	B2.4 use objects, diagrams, and equations to subtract whole numbers within 100
Lesson 4	Subtract 2-digit numbers using base ten blocks and drawings	B2.4 use objects, diagrams, and equations to subtract whole numbers within 100
Lesson 5	Use the "Jump Strategy" to solve 2-digit subtraction (number line)	B2.4 use objects, diagrams, and equations to subtract whole numbers within 100
Lesson 6	Use the "Split Strategy" to solve 2-digit subtraction (expanded form)	B2.1 use the properties of subtraction and its relationships to solve problems and check calculations
Lesson 7	Use the "Shortcut Strategy" to solve 2-digit Subtraction (compensation)	B2.1 use the properties of subtraction and its relationships to solve problems and check calculations
Lesson 8	Use a Hundreds Chart to solve 2-digit subtraction	B2.4 use objects, diagrams, and equations to subtract whole numbers within 100
Lesson 9	Solving 2-digit subtraction using the traditional algorithm	B2.1 use the properties of subtraction and its relationships to solve problems and check calculations
Lesson 10	Solving 1 to 2-step word problems	B2.1 use the properties of subtraction and its relationships to solve problems and check calculations

Mindful MATH 2nd Grade

2-Digit Subtraction - Overview

Correlated to British Columbia, Canada's BIG Ideas for Grade 2 & 3

Lesson 1	Fluency subtract with mental math strategies within 20	Addition and subtraction facts to 20
Lesson 2	Mentally subtract 10 from a number	Addition & subtraction to 100
Lesson 3	Subtract 2-digit numbers using ten frames	Addition & subtraction to 100
Lesson 4	Subtract 2-digit numbers using base ten blocks and drawings	addition & subtraction to 100
Lesson 5	Use the "Jump Strategy" to solve 2-digit subtraction (number line)	addition & subtraction to 100
Lesson 6	Use the "Split Strategy" to solve 2-digit subtraction (expanded form)	addition & subtraction to 100
Lesson 7	Use the "Shortcut Strategy" to solve 2-digit Subtraction (compensation)	addition & subtraction to 100
Lesson 8	Use a Hundreds Chart to solve 2-digit subtraction	addition & subtraction to 100
Lesson 9	Solving 2-digit subtraction using the traditional algorithm	addition & subtraction to 100
Lesson 10	Solving 1 to 2-step word problems	addition & subtraction to 100

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& activities
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Mindful **MATH** Curriculum for K-2



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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.