# Using Place Value Strategies; Recognizing the Need for Standard Units of Measure; Relating Addition & Subtraction to Length

2<sup>nd</sup> Grade Unit 2

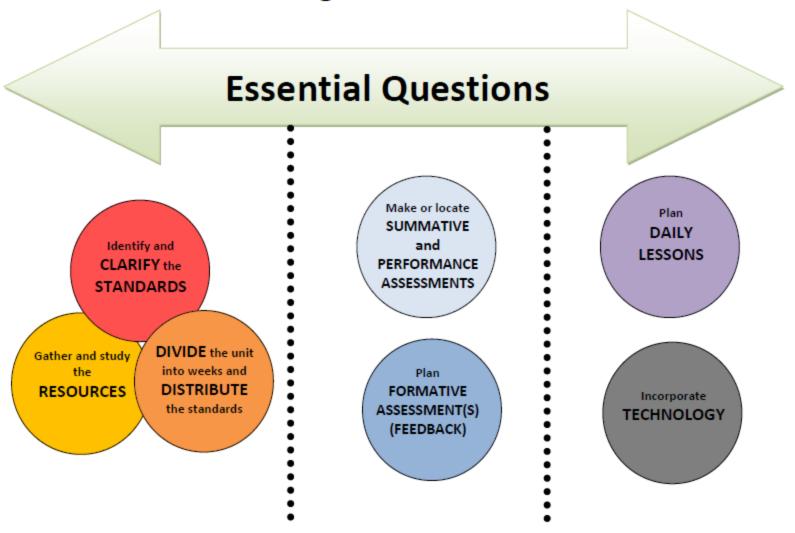




Unit Planning Team:

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### **Backward Unit Planning 1.0**



### **Essential Questions**





#### R.P.S. Common Core Math Curriculum

2nd Grade

2nd Quarter (p. 1 of 2) Using Place Value Strategies; Recognizing the Need for Standard Units of Measure; Relating Addition/Subtraction to Length Students continue to develop their strategies for adding and subtracting. They will work to strengthen their fluency within 20 and within 100. They will use their understanding of place value to compare numbers and to explain why addition and subtraction strategies work. Students will apply their work in First Grade with nonstandard units of measure and recognize the need for standard units of measure. They will also begin to recognize the relationship between the size of the unit used and the number of iterations needed. (For example: the smaller the unit, the more iterations they need to cover a given length.) Students will begin to apply their measurement experiences when creating number lines and representing their data

through line plots. Experiences in measurement this quarter should lie heavily in developing the "need for standard units of measure" through the use of non-standard units and manipulatives. They will also extend their understanding of the units of time, telling and writing

Represent and solve problems involving addition and subtraction

#### Essential Ouestions:

What should

How does the

2.OA.1	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.					
Add and	subtract within 20					
2.OA.2	2.OA.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.					
	Numbers and Operations in Base Ten					
Underst	and place value					
2.NBT.1	Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: a. 100 can be thought of as a bundle of ten tens — called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).					
2.NBT.2	Count within 1000; skip-count by 5s, 10s, and 100s.					
2.NBT.3	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.					
2.NBT.4	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.					
Use place subtract	e value understanding and properties of operations to add and					
2.NBT.5	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.					

Add up to four two-digit numbers using strategies based on place value and

Explain why addition and subtraction strategies work, using place value and the properties of operations (explanations may be supported by drawings or objects).

Operations and Algebraic Thinking

How can I use place value to compare numbers?

What should we consider when choosing a unit of measure?

How does the size of the unit affect the measure?

How do addition and subtraction relate to length?

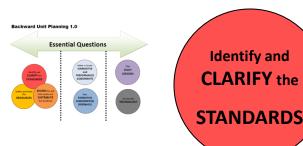
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Minimum Quarterly Expectation: Add up to three 2-digit numbers

properties of operations.

Represent and solve problems involving addition and subtraction							
2.OA.1 Use addition and subtraction within 100 to solve one- and two-step wor problems involving situations of adding to, taking from, putting together apart, and comparing, with unknowns in all positions, e.g., by using dravequations with a symbol for the unknown number to represent the problems.							
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Underst	and place value						
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<b>2.NBT.2</b> Count within 1000; skip-count by 5s, 10s, and 100s.							
2.NBT.3	Read and write numbers to 1000 using base-ten numerals, number names, and						
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2.NBT.5	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction						
2.NBT.6	Add up to four two-digit numbers using strategies based on place value and properties of operations.						
	Minimum Quarterly Expectation: Add up to three 2-digit numbers						
2.NBT.9	Explain why addition and subtraction strategies work, using place value and the properties of operations (explanations may be supported by drawings or objects).						

2.NBT.4 - NEW this quarter (see next slide for our clarifications)
 2.NBT.6 - CHANGED this quarter - increases from adding up to two 2-digit numbers in first quarter to adding up to three 2-digit numbers in second quarter



**Clarifications on Continued Standards** \*Things We Want to Remember This Quarter\* Pose 1 AND 2 step problems Pose varying problem types Continue to increase numbers Get deeper into subtraction Emphasize building on known facts (Number Talks as a resource) Continue work on composing & decomposing numbers Continue posing multiplication & measurement division problems involving groups of 10 & 100 Keep increasing numbers Remember to start at non-decade numbers 2.NBT.3 Make meaningful connections to 2.NBT.1 and 2.NBT.2

Try to move kids away from direct modeling

and toward using place value and properties of operations – and explain why those strategies

2.NBT. 5 &

work

# Measure and estimate lengths in standard units 2.MD.2 Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen. 2.MD.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. Relate addition and subtraction to length. Use addition and subtraction within 100 to solve word problems involving lengths that are given in the

l		Use addition and subtraction within 100 to solve word problems involving lengths that are given in the
ı	2.MD.5	same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the
l		unknown number to represent the problem.
I		Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points
l	2.MD.6	corresponding to the numbers 0, 1, 2,, and represent whole-number sums and differences within 100
ı		on a line diagram.

#### Work with time and money.

**2.MD.7** Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.

#### Represent and interpret data.

	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot,
2.MD.9	making repeated measurements of the same object. Show the measurements by making a line plot,
	where the horizontal scale is marked off in whole-number units.

<sup>\*</sup>Experiences in measurement this quarter should lie heavily in developing the "need for standard units of measure" through the use of non-standard units and manipulatives that are of "standard" length (like centimeter cubes, inch cubes/tiles, etc).

Measurement using tools, such as a ruler, will come in 3<sup>rd</sup> quarter.





Clarifications on NEW Standards

\*Things We Want to Remember This Quarter\*

We want to connect comparisons to decomposing numbers based on place value (2.NBT.1 & 2.NBT.3) and to the idea of comparing measurements (2.MD.4)

Our summary "the smaller the unit, the more it will take"

We want to connect this idea of comparing measurements to comparing numbers (2.NBT.4) and solving comparison problems (2.OA.1). \*express the length difference in terms of a NON-STANDARD length unit in 2<sup>nd</sup> Quarter\*

NO RULER until 3<sup>rd</sup> quarter
"lengths that are given in the same units"
means non-standard units (paperclips, steps, etc.)

Connection to strategies for solving addition and subtraction problems (2.OA.1 and 2.OA.2) Deep understanding of whole numbers on the number line will help when they learn fractions on the number line in 3<sup>rd</sup> grade

Progresses from hours and half hours in 1<sup>st</sup> grade

Once students measure an object or distance and a class line plot is created, we see almost all the standards in this unit could be addressed (especially 2.MD.2, 2.MD.4, 2.MD.5, 2.MD.6)

# Suggested Weekly Posing of Problems:

This is one way to think about clustering the standards. These ideas would be repeated each week.

#### Essential Question: How Can I Use Place Value to Compare Numbers?

**1-2 days a week-** Continue developing understanding of place value by composing and decomposing numbers and by posing multiplication and measurement division problems with groups of 10 and 100. Begin to compare numbers by applying place value understanding. (2.NBT.1, 2.NBT.2, 2.NBT.3, 2.NBT.4)

# Essential Questions: What should we consider when choosing a unit of measure? How does the size of the unit affect the measure?

**2-3 days a week-** Work on measurement ideas using non-standard units in order to push students to generate the need for standard units of measure and to solidify important features of measure before students begin to use standard units in 3<sup>rd</sup> Quarter. (2.MD.2, 2.MD.4, 2.MD.9)

#### Essential Question: How do addition and subtraction relate to length?

**2-3 days a week-** Connect and extend addition and subtraction work from 1<sup>st</sup> Quarter to length. (2.OA.1, 2.OA.2, 2.NBT.5, 2.NBT.6, 2.NBT.9, 2.MD.5, 2.MD.6, 2.MD.9)

\*Because working with time (2.MD.7) is a "yellow/additional" cluster, we chose to do a daily time check/mini-lesson, rather than devoting entire lessons to telling time.\*



DIVIDE the unit into weeks and DISTRIBUTE the standards

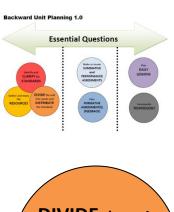
### COMMON CORE SHIFTS FOR

MATHEMATICS

## Focus strongly where the standards focus.

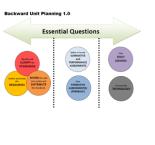
- Coherence: think across grades, and link to major topics within grades.
- Rigor: in major topics, pursue conceptual understanding, procedural skill and fluency, and application.

Week	Standards	Structure/Resources
1	2.OA.1 2.NBT.5 2.NBT.9	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion.
	2.MD.2, 2.MD.9	Rich Lehr Measurement Units
	2.NBT.1, 2.NBT.2, 2.NBT.3 2.OA.2 2.MD.7	Morning Math / Daily Practice/Time Check Number Talks
2	2.OA.1 2.NBT.5 2.NBT.6 (every other week) 2.NBT.9	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion. 2.NBT.6 – add up to 3 two digit numbers
	2.MD.2, 2.MD.9  2.NBT.1, 2.NBT.2, 2.NBT.3  2.OA.2  2.MD.7	Rich Lehr Measurement Units  Morning Math/ Daily Practice/Time Check Number Talks
3	2.OA.1 2.NBT.5 2.NBT.9	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion.
	2.MD.4, 2.MD.9 (tie in 2.NBT.4)	Rich Lehr Measurement Units
	2.NBT.1 , 2.NBT.2, 2.NBT.3, 2.NBT.4 2.OA.2 2.MD.7	Morning Math/ Daily Practice/Time Check Number Talks





Week	Standards	Structure/Resources	
4	2.OA.1 / 2.MD.5 2.NBT.5 2.NBT.6 2.NBT.9	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion. 2.NBT.6 – add up to 3 two digit numbers  2.MD.5 – word problems involving lengths – use non-standard units to measure	
	2.MD.4, 2.MD.9 (tie in 2.NBT.4) 2.NBT.1, 2.NBT.2, 2.NBT.3, 2.NBT.4	Rich Lehr Measurement Units  Morning Math/ Daily Practice/Time Check Number Talks	
	2.OA.2 2.MD.7		
5	2.OA.1 / 2.MD.5 2.NBT.5 2.NBT.9	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion. 2.MD.5 – word problems involving lengths – use non- standard units to measure	
	2.MD.6	Context For Learning - Ages and Timelines	
	2.NBT.1, 2.NBT.2, 2.NBT.3 2.OA.2 2.MD.7	Morning Math/ Daily Practice/Time Check Number Talks	
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6	2.MD.6	standard units to measure	
	2.NBT.1, 2.NBT.2, 2.NBT.3 2.OA.2	2.MD.6 Context For Learning - Ages and Timelines	
	2.MD.7	Morning Math/ Daily Practice/Time Check Number Talks	



DIVIDE the unit into weeks and DISTRIBUTE the standards

Week	Standards	Structure/Resources
7	2.OA.1 2.NBT.5 2.NBT.9 2.MD.6 2.NBT.1 – 3 2.MD.7 2.OA.2	<ul> <li>2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion.</li> <li>2.MD.6 – Contexts for Learning – Ages and Timelines</li> <li>Morning Math/ Daily Practice/Time Check Number Talks</li> </ul>
8	2.OA.1 2.NBT.5 2.NBT.6 2.NBT.9 2.MD.6 2.NBT.1 – 3 2.MD.7 2.OA.2	<ul> <li>2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion.</li> <li>2.MD.6 – Contexts for Learning – Ages and Timelines</li> <li>Morning Math/ Daily Practice/ Time Check/ Number Talks</li> </ul>
9	2.OA.1 2.NBT.5 2.NBT.9 2.NBT.1-3 2.MD.7 2.OA.2	2.OA.1 1-2 times per week; Multiplication and Measurement Division Problems in groups of 10; Pose problem types to students based on student needs. Look for invented strategies to pull out in discussion.  Morning Math/ Daily Practice/ Time Check/ Number Talks

Backward Unit Planning 1.0







**DIVIDE** the unit into weeks and **DISTRIBUTE** the standards



# **Intranet**

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Planning Options

Lesson Resources

Technology Resources

Games and Activities

Literature Connections Number Talks for 2nd

Teacher Created Resources

Intranet » K-5 Curriculum » 2nd Grade Curriculum » Math » Curricular and Instructional Resources » U2: Place Value Strategies; Measurement - Part 1 » Lesson Resources

#### Lesson Resources

Using Place Value Strategies 2.OA.1, 2.OA.2; 2.NBT.1 - 2.NBT.6, 2.NBT.9

Compare Situations (2.NBT.1, 2.NBT.4, 2.NBT.7)

Addition and Subtraction (within 100) (2.OA.1, 2.OA.2, 2NBT.1, 2NBT.5, 2NBT.6, 2.NBT.9)

Addition and Subtraction (within 20) (2.0A.2)



Mastering the Basic Math Facts: Addition and Subtraction by Susan O'Connell and John SanGlovanni This book explores ways to support all students in mastering addition and subtraction facts. It focuses on big ideas, strengthening students' understanding of math operations, developing strategic thinking and provides varied and engaging practice tasks to promote fluency. (2.O.A.1, 2.O.A.2, 2.N.B.T.5, 2.N.B.T.7, 2.N.B.T.9)

Guide to Using Mastering the Basic Math Facts: Addition & Subtraction

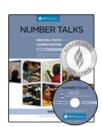
Additional Resources for 2.OA.2 and using Mastering the Basic Math Facts: Addition and Subtraction These resources are from Howard County Public Schools, MD, and one of the co-authors of the book, John San Giovanni.

This unit uses the contexts of age differences and the open number line model to support the development of efficient subtraction strategies. This unit also supports the generalization of subtraction as removal, as difference, and as an operation to find a missing addend.





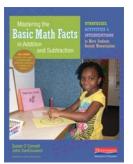












# **Gather and study** the **RESOURCES**

Theory of Measurement

T o M	Identify and that acterize the attribute of the object to be measured. Direct comparison of attributes.	ToAC C	Associate measure with count.	This book is 4 (Student reads number off a ruler)* The pencil is 5 paper clips long (the paper clips need not be identical lengths).
		ToMC B	Distinguish (e.g., equal, not equal) or order (e.g., greater, lessor) quartifies of an attribute by direct comparison.	"This book is talker than that one (Student aligns the books and compares)."
		TeM2	Define the attribute being measured.	The means how fir it is around the catepiller (analogy to circumference of wrist).  The means the one that weighs the most."
T 0 M 1	Identify the object event to be measured.	ToMI B	Identify measurable attributes (qualities).	"We could find out how long the catepillar is or how fat it is."
		ToMI A	Pour a question or reader statements about a potentially remarable object of interest.	"How big is the pumpkin? "Which rocket flee the best" "This pumpkin is big."

#### CGI Addition & Subtraction Problem Types

	Result Universim	Charge Unknown	Start Unknown	
tole		Sarah has 6 crayons. How many more crayons does she need to have 13 altogether?		
Separate	Sarah had 13 crayons. She gave 6 to Brad. How many crayons does Sarah have left?	Sarah had 13 crayons. She gave some to Brad. Now she has 7 marbles left. How many marbles did she give to Brad?	Sarah had some crayons. She gave 6 to Brad. Now she has 7 crayons left. How many crayon did Sarah have to start with?	
	Whole Unknown		Part Unknown	
Part Part Whole	Sarah has 6 green crayons and 7 purple crayons. How many crayons does she have?		Sarah has 13 crayons, 6 are green and the rest are purple. How many purple crayons does Sarah have?	
	Cifference Unknown	Compare Quantity Unknown	Referent Unknown	
Corresion	Sarah has 13 crayons. Brad has 7 crayons. How many more	Brad has 7 crayons. Sarah has 6 more than Brad. How many	Sarah has 13 crayons. She has more crayons than Brad. How	

#### Backward Unit Planning 1.0

#### **Essential Questions**









**Summative Assessment** is designed and administered to "sum up" learning that has taken place during a lesson, a unit, or a course.





## **Essential Question 1** How can I use place value to compare numbers?

#### Illustrative Mathematics

2.NBT Comparisons 1

#### Alignments to Content Standards

Alignment: 2.NBT.A.4

#### Tags

This task is not yet tagged.

Are these comparisons true or false?

- a. 2 hundreds + 3 ones > 5 tens + 9 ones
- b. 9 tens + 2 hundreds + 4 ones < 924</p>
- 456 < 5 hundreds</li>
- d. 4 hundreds + 9 ones + 3 ones < 491</p>
- e. 3 hundreds + 4 tens < 7 tens + 9 ones + 2 hundred</p>
- f. 7 ones + 3 hundreds > 370
- g. 2 hundreds + 7 tens = 3 hundreds 2 tens

# Make or locate **SUMMATIVE** and **PERFORMANCE ASSESSMENTS**

#### Illustrative Mathematics

2.NBT Using Pictures to Explain Number Comparisons

#### Alignments to Content Standards

Alignment: 2.NBT.A.4

#### Tags

· This task is not yet tagged.

Compare each pair of numbers. Write your comparison using <,=, or > and in words. Explain your answer with a picture.

- Anne R. Reeves

- a. 99 and 100
- b. 154 and 231
- c. 453 and 428
- d. 351 and 354

**Summative Assessment** is designed and administered to "sum up" learning that has taken place during a lesson, a unit, or a course.

**Essential Questions** 



## **Essential Question 2**

What should we consider when choosing a unit of measure?

> Comparing Lengths **b** Instruction

Formative Assessment

- 1. Provide the child with a block of wood that is approximately 12 inches long, with "worms" that are 1 inch, 2 inches, and 4 inches long. Ask each student to find and record the measure of the length of the block of wood in a way so that someone else who read the measurement could use it to draw a line exactly the same length as the block of wood: "Just like we did in class when we had to draw a line exactly the same as someone else's."
- 2. The second problem is a compare difference unknown, with numbers and manipulative aides provided by the teacher. The teacher reads the problem to the group or to individuals who have different number values filled in:

Ricardo's rope is \_\_\_\_\_ feet long and Yostena's is \_\_\_\_\_ feet long. How much longer is Yostena's rope?

Make or locate **SUMMATIVE** and **PERFORMANCE ASSESSMENTS** 

- Anne R. Reeves

Comparing Path Lengths

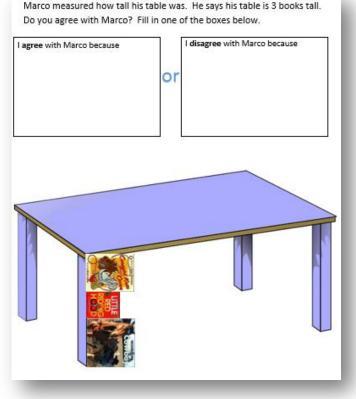
Formative Assessment

Mystery Line

Measuring the Length of a Desk Teacher's Secret Line

Indicate the levels of mastery demonstrated for measuring the block of wood by circling those for which there is clear

Level	Description	Notes			
ТоМЗВ	Child uses identical units of measure or labels non-identical units.  Labels unit(s)? Yes or No (Circle one)				
ToM3A	Child's method for measuring leaves no gaps.				
ToM2E	Child represents measure with a number.				
ToM2A	Identifies length of the block of wood.  Circle those that apply: Yes No Other				
NL	Does not know how to measure or cannot make any sense of the task.				



**Summative Assessment** is designed and administered to "sum up" learning that has taken place during a lesson, a unit, or a course.

Essential Questions

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- Anne R. Reeves

# Essential Question 3 How does the size of the unit affect the measure?

1. (2.MD.2) Jim measured the carpet in the classroom with his planner and then with a crayon. He got these two measurements: 25 and 12. Which measurement was the planner and which was the crayon? (Write crayon or planner in the blank) Why were the measurements different? 2. (2.MD.2) Casey wants to find the length of her desk with one book, but her book is not as long as her desk. Length Casey's desk Book Can Casey use only one book to measure her desk? Explain.

# Make or locate SUMMATIVE and PERFORMANCE ASSESSMENTS

**Summative Assessment** is designed and administered to "sum up" learning that has taken place during a lesson, a unit, or a course.

Essential Questions

Essential Questions

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- Anne R. Reeves

# Essential Question 4 How do addition and subtraction relate to length?

2.MD Frog and Toad on the number line

Alignments to Content Standards

Alignment: 2.MD.B.6

#### Tags

· This task is not yet tagged.

One day, Frog and Toad were sitting together on a lily pad. Some lily pads were in a line across the pond.



In the morning, Frog hopped three lily pads away. In the afternoon, he hopped two more away. In the evening, he hopped another two more.

Toad hopped four lily pads away in the morning. He rested in the afternoon and continued three further in the evening. Frog said,

Toad, we ended up at the same place!

Show each of their journeys on a number line, starting at 0. Use different colors for the morning, afternoon, and evening hops. Write a number sentence that reflects that they ended up at the same place.

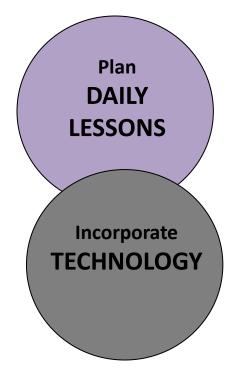


Pose a Compare Problem

**Example – Compare Difference Unknown** 

Luke's desk is \_\_\_\_\_ paperclips long and Jasmine's is \_\_\_\_ paperclips long. How much longer is Jasmine's desk?

Monday Week 1	Tuesday Week 1	Wed. Week 1	Thurs. Week 1	Friday Week 1
Measurement Formative Assessment from online*  Daily: 2.MD.7 (time) 2.OA.2 (facts) 2.NBT.1-3 (place value)	Measurement 2.MD.2, 2.MD.9  Daily: 2.MD.7 2.OA.2 2.NBT.1 - 3	Measurement 2.MD.2, 2.MD.9  Daily: 2.MD.7 2.OA.2 2.NBT.1 - 3	Problem solving 2.OA.1 (+ or – word problem) 2.NBT.5, 9  Daily: 2.MD.7 2.OA.2 2.NBT.1 - 3	Problem Solving 2.NBT.1,2,3 (these 3 play off each other) Mult. or Measurement Division problem  Daily: 2.MD.7 2.OA.2 2.NBT.1 - 3



# LESSONS AND RESOURCES ARE AVAILABLE ONLINE.



Plan DAILY LESSONS

Incorporate TECHNOLOGY

# **NEW Teacher Created Resources pages!!!**





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