# TOWNSHIP OF UNION PUBLIC SCHOOLS



## **Grade 2 Mathematics**

Adopted December 15, 2020

#### Mission Statement

contribute as responsible and productive citizens of our global community. students' intellectual curiosity, skills and knowledge, our students can achieve academically and socially, and every student is challenged, inspired, empowered, and respected as diverse learners. Through cultivation of integrity, strong family, and community partnerships. We promote a supportive learning environment where The mission of the Township of Union Public Schools is to build on the foundations of honesty, excellence,

#### Philosophy Statement

and community. students in general, providing therein for individual differences. The school operates as a partner with the home through its educational practices. It is the belief of the Board of Education that a primary function of the Township of Union Public School System is to formulate a learning climate conducive to the needs of all The Township of Union Public School District, as a societal agency, reflects democratic ideals and concepts

Module A Unit Title: Mathematics Place Value and Three Digit Addition and Subtraction Strategies – Unit 1 –

Grade level: Grade 2

**Timeframe: Marking Period 1** 

#### Rationale

Grade 2 - Place Value and Three Digit Addition and Subtraction Strategies - Unit 1

understanding that the three digits represent amounts of hundreds, tens, and ones. extend the counting sequence mastered in grade 1 to count within 1000. Learners build place value understanding for three digit numbers, The primary focus of Unit 1 is building place value understanding for three digit numbers and working with numbers within 1000. Learners

conceptual understanding of addition and subtraction within 1000. The unit concludes as learners begin to explain why addition and subtraction Building upon grade 1 work adding within 100 using concrete models, drawings, and strategies, grade 2 learners use addition and subtraction strategies work, and pursue fluency for addition and subtraction within 20 using mental strategies. within 100 to solve both one- and two-step word problems for a variety of situations. They use concrete models and drawings to develop

#### **Essential Questions**

#### Standards

## Standards (Taught and Assessed):

- **2.NBT.A.2** Count within 1000; skip-count by 5s, 10s, and 100s.
- 2.NBT.A.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
- **2.NBT.A.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.
- 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).
- NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.

- E... BT.A.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form
- 2.NBT.A.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.

Key: Major Cluster Supporting Cluster

Additional Cluster

## Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

## **Social-Emotional Learning Competencies**

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### **Pre-Assessment and Reflection**

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO-WALT Student Strategies  We are learning to/that  Student Strategies  Formative Assessment  Assessment  Assessment  Assessment  Assessment  At-r	2.NBT.A.2 – WALT  • Recall and apply chart with missing number sequence numbers  Count within 1000-100  • Recall and apply chart with missing numbers  I with missing numbers  Game  Highlighting by 5's boxes on a hundreds chart  I windereds chart  I with missing ones within the chart (counting by ones within the chart)  Around the World Counting by 10's columns on a hundreds chart  Highlighting by 5's boxes on a hundreds chart  I with missing ones within the chart (counting by an a hundreds chart)  Around the World Counting by 10's columns on a hundreds chart  I with missing ones within the chart (counting by an an a hundreds chart)  I with missing ones within the chart (counting by an	2.NBT.A.2 – WALT  • Recognize and apply skip count by tens  • Recognize and apply number patterns  • Recognize and apply counting by 10's on a hundreds chart numbers highlighted on a  hundreds chart  • Recognize and apply counting by 10's on beans, etc.) in groups of 5 and 10 to make a connection to the hundreds chart	2.NBT.A.2 – WALT  • Recognize and apply skip count by fives  number patterns number patterns hundreds chart or make a beaded number line		read numbers to 1000 100 using base-ten numerals  • Recall the value of a read a read number to 100 using base-ten in a number in a number in a number in standard,  • Recall the value of a read a read a read a read a rumber aloud, write of the read a rumber aloud, write a rumber aloud, write of the read a rumber aloud, write of the read a rumber aloud, write a rumber aloud, write of the reaction
nd Resources	chart (counting by he chart) le World Counting ing counting by 10's hundreds chart ing by 5's boxes on hart	pennies, cereal, n groups of 5 and connection to the lighted on a	kip counting by using hands and feet son a number line aded number line	tice connecting a 's place in a 2-digit 'er to its value lighted or	men argu)
Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	General and Special Education teachers will work together to provide students with the support they need as written in their individualized education plan	e d	'feet ne e	igit	

	place; represent a group of 100 in expanded form		refer to 1, 2, 3, 4, 5, 6, 7, 8, or 9 hundreds (and 0 tens and 0
Model three-digit numbers in expanded form to show the value of the hundreds, tens, and ones	Exit ticket: Have students highlight the digit that increases in the hundreds	<ul> <li>Recognize that a three- digit number can represent a group of hundreds</li> </ul>	2.NBT.A.1 – WALT the numbers 100, 200, 300, 400, 500, 600, 700, 800, and 900
Use manipulatives to model ten of the ten sticks and one hundreds block to show that ten tens equal one hundred	Exit ticket: Circle tens blocks to show a hundred	<ul> <li>Recall and apply number pattern knowledge to recognize that each group of 10 tens is equivalent to 100</li> </ul>	2.NBT.A.1 – WALT 100 is a bundle of ten tens called a "hundred"
	students two ways to represent a three-digit number; students have to explain why the two ways show the same number	represents a group of tens, and the third number represents a group of ones	tens, and amounts of ones
show the value of a number in different ways (example: 452 can be shown as 4 hundreds, 5 tens, and 2 ones or as 45 tens and 2 ones	Exit ticket: Draw the hundreds, tens, and ones of a given three-digit number Exit ticket: Give	<ul> <li>Demonstrate that the first number in a 3-digit number represents a group of hundreds, the second number</li> </ul>	2.NBT.A.1 – WALT the three digits of a three-digit number represent amounts of hundreds, amounts of
Utilize base ten blocks to model numbers as hundreds, tens, and ones in a chart Draw hundreds, tens, and ones to model three-digit numbers Use a graphic organizer to	Exit ticket-Write how many hundreds, tens, and ones for a given three-digit number	<ul> <li>Recall that the first number in a 3-digit number is the hundreds place, the second number is the tens place, and the third number is the ones place</li> </ul>	2.NBT.A.1 – WALT a three-digit number is made up of hundreds, tens, and ones
number - practice writing values of each digit as an addition sentence (expanded form)  Utilize number spellings reference sheet to assist in a 2-digit # being written in word form		in a number and transfer the values into a number sentence	100 using base-ten numerals

2.NBT.A.4 – WALT compare two three- digit numbers using place value understanding and record the results using the symbols >, =, <	2.NBT.A.3— WALT write numbers to 1000 using expanded form	2.NBT.A.3 – WALT read numbers to 1000 using expanded form	2.NBT.A.2 – WALT skip count by hundreds	ones)
Solve problems involving number comparisons by utilizing knowledge of place value	• Recall the value of a digit based upon a place in a number and transfer the values into a number sentence	<ul> <li>Recall the value of a digit based upon a place in a number</li> </ul>	<ul> <li>Recognize and apply number patterns</li> </ul>	
Determine if comparison sentences are true or false	expanded, and word form.	Roll a die 3x to create a 3-digit number - read number aloud, write in standard,	Continue a list of numbers counting by hundreds	
Use a YouTube video to model alligator strategy for greater than and less than Compare numbers using the symbols >, >, = after learning the alligator strategy  Model/draw the value of each digit in each number one under the other to compare starting with the greatest place value position	• Use online base-ten  blocks  Make place value "snakes" out of egg cartons. Play a game of naming a 3-digit number and have students place some type of marker in each place to represent the 3-digit number Use a graphic organizer to show ways to make a number (example: standard form, word form, expanded form, and drawing base ten blocks)	<ul> <li>Model with manipulatives, draw, and write numbers to make it easier to read three-digit numbers in expanded</li> </ul>	Use a number line to show the addition of hundreds as an increase in the hundreds place only	

(gr	three-dia compare	War G	greater the	325 becaus	(example: :	explanation	Encourage verbal
eater number wins)	three-digit number cards to compare the values of numbers	ame: Partners use	greater than 3 hundreds)	e 5 hundreds is	550 is greater than	explanations of the comparisons	ge verbal

Modifications per students' IEP

#### Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure,
	504) and Reflections
	Modifications per students' IEP

## Summative Assessments (add rows as needed)

Modifications per students' IEP	Summative Assessment Modifications (ELL, Special Education, Gifted 504) and Reflections
	ion, Gifted, At-risk of Failure,

#### Interdisciplinary Connections

Modifications per students' IEP	Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
		Modifications per students' IEP

Module B Unit Title: Mathematics Place Value and Three Digit Addition and Subtraction Strategies - Unit 1 -

Grade level: Grade 2

Timeframe: Marking Period 1

#### Rationale

Grade 2 - Place Value and Three Digit Addition and Subtraction Strategies - Unit 1

extend the counting sequence mastered in grade 1 to count within 1000. Learners build place value understanding for three digit numbers, understanding that the three digits represent amounts of hundreds, tens, and ones. The primary focus of Unit 1 is building place value understanding for three digit numbers and working with numbers within 1000. Learners

conceptual understanding of addition and subtraction within 1000. The unit concludes as learners begin to explain why addition and subtraction strategies work, and pursue fluency for addition and subtraction within 20 using mental strategies within 100 to solve both one- and two-step word problems for a variety of situations. They use concrete models and drawings to develop Building upon grade 1 work adding within 100 using concrete models, drawings, and strategies, grade 2 learners use addition and subtraction

#### **Essential Questions**

#### Standards

### Standards (Taught and Assessed):

- 2.0A.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, unknown number to represent the problem. putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the
- 2.NBT.B.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, decompose tens or hundreds. three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting
- 2.NBT.B.8 Mentally add 10 or 100 to a given number 100 900, and mentally subtract 10 or 100 from a given number 100 900
- 2.NBT.B.9 Explain why addition and subtraction strategies work, using place value and the properties of operation.
- 2.0A.B.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit
- Major Cluster Supporting Cluster ◎ Additional Cluster

Key:

## Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

## **Social-Emotional Learning Competencies**

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### **Instructional Plan**

#### **Pre-Assessment and Reflection**

Pre-Assessment
Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO-WALT	Student Strategies	Formative Assessment	<b>Activities and Resources</b>	Modifications (ELL,
	(			Special Education,
We are learning				Gifted, At-risk of
to/that				Failure, 504) and
				Reflections

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0	WALT use concrete models and a place value strategy to add and subtract within 1000, and relate the written strategy to the model  2.NBT.B.7 – WALT use drawings and a place value strategy to add and subtract within 1000, and relate the written strategy to the drawing	sometimes it is necessary to compose or decompose tens and/or hundreds
	<ul> <li>Solve problems by quickly using manipulatives or drawing pictures to solve problems</li> <li>Explain how the manipulatives or pictures show the math needed to solve the problem</li> <li>Apply model reasoning to standard algorithm</li> </ul>	problem
0	• ECR in which students model, solve, and explain in written word	why/why not  • Students create individual anchor charts that model when to regroup and how
	Demonstrate regrouping using base ten blocks and drawings to model how to solve problems  Utilize the Go Math Interactive Lessons to model regrouping	Through the use of base ten blocks or drawings, students represent the larger of two 3-digit numbers as the top number in a subtraction problem  Through the use of base ten blocks or drawings, students practice identifying a smaller digit on the bottom in the ones and/or tens place, which then requires regrouping  Create anchor charts modeling each step of regrouping in both addition and subtraction  Provide checklist for solving subtraction problems with regrouping  Use the following poem:  If there is more on top, that means stop. If there is more on the floor, go next door.
0		

Practice addition and subtraction of	Give students a	<ul> <li>Apply knowledge of</li> </ul>	2.NBT.B.8 -
Practice addition and subtraction of tens with games  Practice adding or subtracting 10 by continuing a list of numbers (e.g. 12, 22)	• Give students a number and have them provide the number for 10 more or 10 less	<ul> <li>Apply knowledge of number patterns to mentally add or subtract a digit from the tens place</li> </ul>	2.NBT.B.8 – WALT mentally add or subtract 10 to or from any given number between 100 and 900
			2.NBT.B.7 – WALT use drawings and a strategy based on properties of operations and/or the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the drawing
	• Have students model or draw how to solve a subtraction problem and then use addition to check their work		WALT use concrete models and a strategy based on properties of operations and/or the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the model

Practice addition and subtraction facts using flash cards or Xtra Math online  https://xtramath.org/#/home/index Fact Champ game	<ul> <li>Quiz students using flashcards or timed interactive fact game</li> </ul>	<ul> <li>Utilize mental math strategies within 20 to memorize sums</li> </ul>	2.OA.B.2 add and subtract within 20 using mental strategies, working towards accuracy and efficiency
Practice addition and subtraction facts using flash cards or Xtra Math online <a href="https://xtramath.org/#/home/index">https://xtramath.org/#/home/index</a> Fact Champ game	<ul> <li>Quiz students using flashcards or timed interactive fact game</li> </ul>	<ul> <li>Utilize mental math strategies within 10 to memorize sums</li> </ul>	WALT know from memory all sums of two one-digit numbers within ten
Use a Bar Model to model and solve addition and subtraction problems based on Part, Part, Whole	• Exit ticket: Students solve a problem by filling in bar model	<ul> <li>Apply understanding of the part/part/whole concept through drawings, equations, or written explanation</li> </ul>	WALT explain why addition and subtraction strategies work based on properties of operations
<ul> <li>Use ECR's to practice explaining how to solve a given problem</li> <li>Peer Partner "Turn and Talk"</li> </ul>	<ul> <li>Student/teacher conferencing</li> </ul>	• Apply understanding of place value to explain what they are doing during each step of an addition or subtraction problem	2.NBT.B.9 – WALT explain why addition and subtraction strategies work based on place value
hundreds with games Practice adding or subtracting 100 by continuing a list of numbers (e.g. 200, 300)	number and have them provide the number for 100 more or 100 less	number patterns to mentally add or subtract a digit from the hundreds place	WALT mentally add or subtract 100 to or from any given number between 100 and 900

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections
	Modifications per IEPs

#### **Benchmark Assessment 2**

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections
	Modifications per IEPs

## Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	Modifications per IEPs

#### Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	Modifications per IEPs

# Unit Title: Counting, Addition and Subtraction Strategies Unit 2 - Module A

Grade level: Grade 2

Timeframe:

#### Rationale

Grade 2 — Counting, Addition and Subtraction Strategies - Unit 2

partition rectangle into rows and columns of same-size squares and skip count to find the total. Learners use repeated addition to find hours and half-hours. multiplication in grade 3. They tell and write time to the nearest five minutes, building on their grade 1 work telling and writing time in the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns, laying the foundation for Continuing the counting sequence of Unit 1, learners skip count by hundreds and continue to develop skills counting within 1000. They

fluency for addition and subtraction within 100 using various strategies such as properties of operations. problems, add up to four two-digit numbers, pursue fluency for addition and subtraction within 20 using mental strategies, and pursue concepts and solve word problems involving dollar bills, quarters, dimes, nickels, and pennies. They solve one- and two-step word The major focus of Unit 2 is reinforcing addition and subtraction concepts in a variety of contexts. Learners are introduced to money

#### **Essential Questions**

#### Standards

### Standards (Taught and Assessed):

- 2.NBT.A.2 Count within 1000; skip-count by 5s, 10s, and 100s.
- 2.G.A.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.
- 2.0A.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.
- 2.0A.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.
- 2.MD.C.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.
- 2.MD.C.8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and \$\phi\$ symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?

■ Major Cluster □ Supporting Cluster ◎ Additional Cluster

Key:

## Highlighted Career Ready Practices and 21st Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

## Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### Instructional Plan

#### Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure,
	504) and Reflections
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# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO – WALT  We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
2.NBT.A.2 – WALT count within 1000	<ul> <li>Recognize and apply number sequence</li> </ul>	• Use hundreds chart with missing numbers (choose a group of a hundred to assess)	<ul> <li>Skip Count By 5's</li> <li>Skip Count By 10's</li> <li>Skip Count By 100's</li> <li>Using manipulatives</li> <li>(snap cubes, legos, pennies, cereal, beans, etc.) in</li> <li>groups of 5, 10 and</li> </ul>	General and Special Education teachers will work together to provide students with the support they need as written in their individualized education plan
2.NBT.A.2 – WALT skip count by fives	<ul> <li>Recognize and apply number patterns</li> </ul>	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 605, 610,)	100 to make a connection to the numbers highlighted on a chosen hundreds chart	
2.NBT.A.2 – WALT skip count by tens	<ul> <li>Recognize and apply number patterns</li> </ul>	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 770, 780,)	• Create task cards for independent work or center time. Write a 3-digit # on each card with directions	

2.OA.C.3 – WALT determine whether a group of objects up to 20 is odd	2.OA.C.4 – WALT write an equation to express the total number of objects arranged in a rectangular array as a sum of equal addends	2.OA.C.4 – WALT use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns	2.G.A.2 – WALT partition a rectangle into rows and columns of same-size squares and count to find the total number of same size squares	2.NBT.A.2 – WALT skip count by hundreds
<ul> <li>Recognize that numbers are even when they make pairs</li> </ul>	<ul> <li>Recall and apply knowledge of the parts of an equation</li> <li>Recall and apply knowledge of addends</li> </ul>	<ul> <li>Utilize visual patterns of arrays to show repeated addition</li> </ul>	<ul> <li>Recall and apply the pattern of a row and column</li> </ul>	<ul> <li>Recognize and apply number patterns</li> </ul>
<ul> <li>Observe student product as pairs are made with snap</li> </ul>		<ul> <li>Exit Ticket - provide         a model of an array         with the task of         creating an equation         using repeated         addition</li> </ul>	• Observe student product and labeling when folding creating their folded rectangles	• Exit Ticket - continue the pattern up to 1,000 (e.g. 700, 800,
<ul> <li>Even and Odd B-I-N-G-O Song</li> <li>Math Literature,</li> </ul>	<ul> <li>Write the Room - students visit different arrays and make a number sentence for each one</li> </ul>	• Use cubes/counters to arrange arrays into columns and rows to model repeated addition, then write a repeated addition number sentence	<ul> <li>Fold post-it notes or sheet of paper to make the required number of partitions and then number the squares formed to find the total number of squares.</li> <li>Make connections to cutting brownies and/or lasagna into enough pieces for a set number of people</li> </ul>	counting by (5's, 10's, 10's, 100's)  • Write 3 digit #'s on bottle caps that count by 5's, 10's, 100's and have students practice putting the numbers in order.
)				

or even (e.g., by pairing		and odd when there		under for a provided		Even Steven and Odd	
objects, counting them by 2s)		are leftovers		number and student explains if model is even or odd	•	Todd Use snap cubes to make pairs in order to determine if a number is even or odd	
2.0A.C.3 – WALT write an equation to express an even number as a sum of two equal addends	•	Recognize that when added together, doubles facts equal a sum of even numbers	•	Observe student product as they model doubles facts with snap cubes and explain the sum as even	•	Use snap cubes to model doubles facts to recognize the sum of equal addends as even	
2.MD.C.7 – WALT use	•	Recognize what each	•	Draw hour and	•	Telling Time to the	
analog and digital clocks to		number on an analog clock represents		minute hands on clocks to demonstrate	•	Nearest 5 Minutes Learning the Clock	
minutes using a.m. and	•	Understand the		the correct time to	•	Use mini clocks (or	
p.m.		the hour and minute	•	Label a clock with		model time to the	
		hand on an analog		the correct digits and		nearest five minutes	
	•	clock  Recognize that there		minute increment	•	Draw a line down a	
		are 24 hours in a	•	Answer questions by		write the 12 a.m.	
		day, 12 being a.m		telling whether the		hours on one side	
		and be able to		happen in the a.m or		on the other side.	
		distinguish between		p.m. hours		Have students fill in	
		the 2				what they do each day during the times	
2.MD.C.8 – WALT  determine the total amount	•	Recognize and apply values of dollar bills.	•	Show a value asked for by modeling with	• •	The Money Song Learning About	
of money by counting		quarters, dimes,		play money Form a grocery store	•	Money	
bills quarters dimes	•	Apply the \$ and \$		list and choose items		amounts of play	
nickels, and pennies using the \$ and ¢ symbols		symbols in the correct location		from a store ad, spending only a given amount of money		money or pictures of money to determine the value of each	
appropriately						group, then write the	

	2.MD.C.8 – WALT solve word problems involving dollar bills, quarters, dimes, nickels, and pennies using the \$ and ¢ symbols appropriately	
•	•	
subtract values of money Recall and apply knowledge of place value	Use knowledge of the the values of dollar bills, quarters, dimes, nickels, and pennies to solve word problems in which they have to add and	
*	•	
	Exit Ti and su probles money	
	Exit Ticket- addition and subtraction word problems involving money	
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appropriately	Create and solve word problems involving money Create a class store, label items with various prices using \$ and \$ symbols	amounts using \$ and \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Benchmark Assessment
Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

#### Benchmark Assessment 2

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504) and Refle

## Summative Assessments (add rows as needed)

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TYLOUTH (LILLY) Specim Luncuscus, Chicago and Alexander	Modifications (EII Special Education Ciffed At-risk of Failure

Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Interdisciplinary Connections
	Interdisciplinary Connections
504) and Reflections	

Module B Unit Title: Mathematics Place Value and Three Digit Addition and Subtraction Strategies - Unit 2

Grade level: Grade 2

Timeframe:

#### Rationale

Grade 2 - Counting, Addition and Subtraction Strategies - Unit 2

partition rectangle into rows and columns of same-size squares and skip count to find the total. Learners use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns, laying the foundation for Continuing the counting sequence of Unit 1, learners skip count by hundreds and continue to develop skills counting within 1000. They

hours and half-hours. multiplication in grade 3. They tell and write time to the nearest five minutes, building on their grade 1 work telling and writing time in

fluency for addition and subtraction within 100 using various strategies such as properties of operations. problems, add up to four two-digit numbers, pursue fluency for addition and subtraction within 20 using mental strategies, and pursue concepts and solve word problems involving dollar bills, quarters, dimes, nickels, and pennies. They solve one- and two-step word The major focus of Unit 2 is reinforcing addition and subtraction concepts in a variety of contexts. Learners are introduced to money

#### **Essential Questions**

#### Standards

### Standards (Taught and Assessed):

- 2.0A.B.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.
- 2.NBT.B.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.B.6 Add up to four two-digit numbers using strategies based on place value and properties of operations.
- 2.0A.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, unknown number to represent the problem. putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the

Major Cluster

☐ Supporting Cluster

Additional Cluster

## Highlighted Career Ready Practices and 2.1st Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

## Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### **Instructional Plan**

#### Pre-Assessment and Reflection

VIOUINCATIONS (ELL), Special Education, Gitted, At-risk of Failure
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# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO-WALT	Student Strategies	Formative Assessment	<b>Activities and Resources</b>	Modifications (ELL,
				Special Education,
We are learning to/that				Gifted, At-risk of
				Failure, 504) and
				Reflections

	Adding Multiple Digit	Exit Ticket - provide	<ul> <li>Recall basic addition</li> </ul>	2.NBT.B.6 - WALT add
	<ul> <li>BrainPop Jr. Fact         Families         Create a Fact Family         House to model related addition and subtraction facts         Put a drawing/model of a fact family triangle with 2 blank addition sentences and 2 blank subtraction number sentences in sheet protectors. Then give students 3 numbers that are related facts, and have students use dry erase markers to write the correct addition and subtraction facts for the related facts/fact family     </li> </ul>	<ul> <li>Observe student product when completing a fact family triangle</li> <li>Exit Ticket - a mix of addition and subtraction problems to solve</li> </ul>	<ul> <li>Recall and apply counting patterns</li> <li>Recall and apply an understanding of place value within 2-digit numbers</li> <li>Recall and apply an understanding of fact families</li> </ul>	2.NBT.B.5 – WALT add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction working towards accuracy and efficiency
General and Special Education teachers will work together to provide students with the support they need as written in their individualized education plan	<ul> <li>XtraMath online resource for practicing math facts</li> <li>Practice addition and subtraction facts with flash cards</li> <li>Fact Champ Game: Students stand in 2 lines, teacher holds up a math fact flash card and whoever shouts the fact out first goes to the end of the line to continue the game, the other person is out Have students quiz each other on their math facts</li> <li>Model math facts with manipulatives</li> </ul>	• Math Fact Quizzes (timed or not timed)	• Recall from memory basic addition and subtraction facts	2.OA.B.2 – WALT add and subtract within 20 using mental strategies, working towards accuracy and efficiency

• Practice solving one and two-step addition and subtraction word problems within 100 using task cards with various word problems in small groups or pairs. Students decide which operation to use to solve the word problem (addition or subtraction)	<ul> <li>Teacher observation as one and two-step word problems are solved</li> <li>Ask students to explain why an operation is necessary to solve</li> </ul>	<ul> <li>Recognize step ! in a problem.</li> <li>Recognize step ? in a problem</li> <li>Apply addition and subtraction strategies in order to solve one and two-step word problems</li> </ul>	2.OA.A.1 – WALT solve one and two-step addition and subtraction word problems within 100 involving situations of adding to, taking from, putting together, taking apart, and comparing
<ul> <li>Create addition and subtraction word problems with drawings to match the equations</li> </ul>	<ul> <li>Exit Ticket - provide         a word problem for         students to write an         equation for</li> </ul>	<ul> <li>Recognize a missing number in a number sentence/equation</li> </ul>	2.OA.A.1 – WALT represent a word problem using drawings and equations using a symbol for the unknown
Numbers Practice adding up to four two-digit numbers using task cards with various addition facts in small groups or pairs	problems with four two-digit numbers as addends	and subtraction facts • Recognize that numbers need to be aligned according to place value when adding and subtracting	up wour two-digit numbers using place value strategies and properties of operations

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	207) and reflections

#### Benchmark Assessment 2

Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure 504) and Reflections
cation, Gifted, At-risl

Summative Assessments (add rows as needed)		

ummative Assessments (and 10ws as nected)

**Interdisciplinary Connections** 

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

Unit Title: Mathematics Measuring Length - Unit 3 - Module A

Grade level: Grade 2

Timeframe:

#### Rationale

### Grade 2 - Measuring Length - Unit 3

and drawings to develop conceptual understanding of addition and subtraction within 1000 and again use repeated addition to find the word problems involving situations of adding to, taking from, putting together, taking apart, and comparing. They use concrete models total number of objects arranged in rectangular arrays to solidify the foundation for multiplication in grade 3. The major focus of Unit 3 is reinforcing addition and subtraction concepts and strategies. Learners continue to solve one- and two-step

rulers, yardsticks, meter sticks, and measuring tapes. They estimate, compare, and represent lengths on the number line. The unit of length units. In this unit, grade 2 learners measure the length of an object directly by selecting and using appropriate tools such as concludes as learners use addition and subtraction within 100 to solve word problems involving lengths. Grade 1 learners measured objects by laying multiple copies of a shorter object and expressed the length of an object as a whole number

#### **Essential Questions**

#### Standards

### Standards (Taught and Assessed):

- 2.0A.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, unknown number to represent the problem. putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the
- 2.NBT.B.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, decompose tens or hundreds. and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or
- **2.NBT.A.2** Count within 1000; skip-count by 5s, 10s, and 100s
- 2.0A.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

Pre-Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Pre-Assessment and Reflection	Social-Emotional Learning Competencies  Self-Awareness Self-Management Social Awareness Relationship Skills Responsible Decision-Making	<ul> <li>CRP1. Act as a responsible and contributing citizen and employee.</li> <li>CRP2. Apply appropriate academic and technical skills.</li> <li>CRP4. Communicate clearly and effectively and with reason.</li> <li>CRP6. Demonstrate creativity and innovation.</li> <li>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.</li> <li>CRP11. Use technology to enhance productivity.</li> </ul>	<ul> <li>Highlighted Career Ready Practices and 21st Century Themes/Skills</li> <li>9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.</li> <li>9.1.4.A.2 Evaluate available resources that can assist in solving problems.</li> <li>9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.</li> <li>9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.</li> </ul>	Key: ■ Major Cluster □ Supporting Cluster ○ Additional Cluster	<b>2.NBT.B.5</b> Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
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St. \_nt Learning Objectives (SLO), Strategies, Formative Assessme..., Activities and Resources (add rows as needed)

	checklist for both		reasoning to	written strategy to the
	a regrouping		• Apply model	within 1000 and relate the
	<ul> <li>Provide students with</li> </ul>	their work	the problem	strategy to add and subtract
	to model regrouping	addition to check	math needed to solve	drawings and a place value
	Interactive Lessons	problem and then use	pictures show the	2.NBT.B.7 - WALT inse
	<ul> <li>Utilize the Go Math</li> </ul>	a subtraction	manipulatives or	0
	problems	or draw how to solve	<ul> <li>Explain how the</li> </ul>	strategy to the model
	how to solve	<ul> <li>Have students model</li> </ul>	solve problems	and relate the written
	drawings to model	written word	arawing pictures to	and subtract within 1000,
	base ten blocks and	soive, and explain in	manipulatives or	place value strategy to add
	regrouping using	siudents model,	quickly using	Concrete moders and a
	<ul> <li>Demonstrate</li> </ul>	• ECR in which	Solve problems by	2.NBT.B.7 – WALT use
	subtraction)			
	problem (addition or			
	use to solve the word			
	which operation to			
	Students decide		problems	apart, and comparing
	groups or pairs.	necessary to solve	and two-step word	paring rogenier, taking
	problems in small	operation is	in order to solve one	nutting together taking
	various word	explain why an	subtraction strategies	adding to taking from
	using task cards with	<ul> <li>Ask students to</li> </ul>	<ul> <li>Apply addition and</li> </ul>	involving situations of
	problems within 100	solved	problem	problems within 100
	and subtraction word	word problems are	<ul> <li>Recognize step 2 in a</li> </ul>	and subtraction word
	and two-step addition	as one and two-step	problem.	one and two-step addition
	<ul> <li>Practice solving one</li> </ul>	<ul> <li>Teacher observation</li> </ul>	<ul> <li>Recognize step I in a</li> </ul>	2.OA.A.1 – WALT solve
plan				
individualized education				
they need as written in their	the equations			for the unknown
students with the support	drawings to match	equation for		equations using a symbol
work together to provide	problems with	students to write an	sentence/equation	using drawings and
Education teachers will	subtraction word	a word problem for	number in a number	represent a word problem
General and Special	<ul> <li>Create addition and</li> </ul>	<ul> <li>Exit Ticket - provide</li> </ul>	<ul> <li>Recognize a missing</li> </ul>	2.0A.A.1 - WALT
Reflections				
Failure, 504) and				
Gifted, At-risk of				a
Special Education,				We are learning to/that
Modifications (ELL,	Activities and Kesources	FOI MALIVE ASSESSMENT	Student Strategies	VIII O
7-1-2	^ J	The same of the sa	Student Studenting	SIO-WALT

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0	2.NBT.A.2 – WALT count within 1000	2.NBT.B.7 – WALT use concrete models and a strategy based on properties of operations and/or the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the model  2.NBT.B.7 – WALT use drawings and a strategy based on properties of operations and/or the relationship between addition and subtract within 1000, and relate the written strategy to the drawings and relate the written addition and subtract within 1000, and relate the written strategy to the drawing	drawing
	• Recall the value of a digit based upon a place in a number		
0	• Roll a die 3x to create a 3-digit number - read number aloud, write in standard, expanded, and word form.		
	<ul> <li>Practice connecting a digit s place in a 3-digit number to its value (highlighted or underlined digit)</li> <li>Draw base-ten blocks to represent a 3 digit number - practice writing values of each digit as an addition sentence (expanded form)</li> <li>Utilize number spellings reference sheet to assist in a 3-digit # being written in word form</li> </ul>		subtraction
Ö			

	<ul> <li>Write the Room - students visit different arrays and make a number sentence for each one</li> </ul>	ds.	<ul> <li>Recall and apply knowledge of the parts of an equation</li> <li>Recall and apply knowledge of addends</li> </ul>	2.OA.C.4 – WALT write an equation to express the total number of objects arranged in a rectangular array as a sum of equal
	• Use cubes/counters to arrange arrays into columns and rows to model repeated addition, then write a repeated addition number sentence	• Exit Ticket - provide a model of an array with the task of creating an equation using repeated addition	<ul> <li>Utilize visual patterns of arrays to show repeated addition</li> </ul>	2.OA.C.4 – WALT use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns
	on a chosen hundreds chart  Create task cards for independent work or center time. Write a 3-digit # on each card with directions for what to practice counting by (5's, 10's, 100's)  Write 3 digit #'s on bottle caps that count by 5's, 10's, 100's and have students practice putting the numbers in order.	• Exit Ticket - continue the pattern up to 1,000 (e.g. 700, 800,	• Recognize and apply number patterns	2.NBT.A.2 – WALT skip count by hundreds
E .	pennies, cereal, beans, etc.) in groups of 5, 10 and 100 to make a connection to the	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 770, 780,)	<ul> <li>Recognize and apply number patterns</li> </ul>	2.NBT.A.2 – WALT skip count by tens
	<ul> <li>Skip Count By 5's</li> <li>Skip Count By 10's</li> <li>Skip Count By 100's</li> <li>Using manipulatives</li> <li>(snap cubes, legos,</li> </ul>	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 605, 610,)	<ul> <li>Recognize and apply number patterns</li> </ul>	2.NBT.A.2 – WALT skip count by fives

2.NBT.B.5 – WALT add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction, working towards accuracy and efficiency	addends
<ul> <li>Recall and apply counting patterns</li> <li>Recall and apply an understanding of place value within 2-digit numbers</li> <li>Recall and apply an understanding of fact families</li> </ul>	
<ul> <li>Observe student product when completing a fact family triangle</li> <li>Exit Ticket - a mix of addition and subtraction problems to solve</li> </ul>	
• BrainPop Jr. Fact Families Create a Fact Family House to model related addition and subtraction facts • Put a drawing/model of a fact family triangle with 2 blank addition sentences and 2 blank subtraction number sentences in sheet protectors. Then give students 3 numbers that are related facts, and have students use dry erase markers to write the correct addition and subtraction facts for the related facts/fact family	

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure,
	504) and Reflections

#### Benchmark Assessment 2

Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
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Summative Assessments (add rows as needed)	
Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure 504) and Reflections
Interdisciplinary Connections	
Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure 504) and Reflections

Grade level: Grade 2

#### Timeframe:

#### Rationale

### Grade 2 – Measuring Length – Unit 3

and drawings to develop conceptual understanding of addition and subtraction within 1000 and again use repeated addition to find the total number of objects arranged in rectangular arrays to solidify the foundation for multiplication in grade 3. word problems involving situations of adding to, taking from, putting together, taking apart, and comparing. They use concrete models The major focus of Unit 3 is reinforcing addition and subtraction concepts and strategies. Learners continue to solve one- and two-step

rulers, yardsticks, meter sticks, and measuring tapes. They estimate, compare, and represent lengths on the number line. The unit of length units. In this unit, grade 2 learners measure the length of an object directly by selecting and using appropriate tools such as concludes as learners use addition and subtraction within 100 to solve word problems involving lengths. Grade 1 learners measured objects by laying multiple copies of a shorter object and expressed the length of an object as a whole number

#### **Essential Questions**

#### Standards

## Standards (Taught and Assessed):

- **2.MD.A.1** Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring
- **2.MD.A.3** Estimate lengths using units of inches, feet, centimeters, and meters.
- 2.MD.A.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length
- 2.MD.A.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.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.

We are tearning to/that    Part	SLO-WALT	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL,
Recall and apply of student use of appropriate e and when to stop measuring an object and when to stop measuring tool as measuring an object and when to stop measuring tool as students identify objects, such as a object, such as a object, such as a appropriate rool. Short lengths, a a paperopriate rool. Short lengths, a a paperopriate rool. Short lengths, and a measuring tape as a tool to measure as tools to measure long lengths, and a measuring tape as a which students "Write and a measuring tape as a which students "Write and a measuring tape as a which students students students students are classroom or at home with the Room" in which students students students students and piect.  Recall estimation as measure objects belonging to Penny, because of how long an inch, foot, centimeter, or meter thumb is an inch, from the ellow to the pinky nail is a cm and a baseball bat is a meter.  Recall estimation as the left to right on the pinky nail is a cm and a baseball bat is a meter.  Recall estimated the left to right on the pinky nail is a cm and a baseball bat is a meter.  Recall and apply the massuring tool as students estimate the left to right on the pinky nail is a cm and a baseball bat is a meter.  Recall and apple the pinky nail is a cm and a baseball bat is a meter.  Recall and apple the pinky nail is a cm and a baseball bat is a meter.  Recall and apple the pinky nail is a cm and a baseball bat is a meter.  Recall and apple the pinky nail is a cm and a baseball bat is a meter.  Recall and apple the pinky nail is a cm and a baseball bat is a meter.	We are learning to/that				Special Education, Gifted, At-risk of Failure, 504) and Reflections
ts meers to start appropriate e and when to stop them to stop the and when to stop students dentify tool as measuring an object.  • Recognize a ruler as a propriate tool.  • And a measure a propriate tool.  • And a measure a propriate tool.  • And the top of a desk.  • And a measure a propriate tool.  • And a measure a polycets which students write classroom or at home using rulers.  • Recall estimation as belonging to Penny, such as a dog bowl, dog house, etc.  • Recall and apply can educated as students estimate guess.  • Recall and apply can enter the length of thumb is an inch, foot, town the elfow to the printy nail is a cm wrist is a foot, from the left or right on the printy nail is a cm and a baseball bat is visit different stations visit different stations visit different stations visit different stations	2.MD.A.1 – WALT		Teacher observation	Identify the	General and Special
measuring tool as  measuring an object.  Recognize a ruler as a tool to measure short lengths, a yardstick, meter stick and a measuring tape as tools to measure long lengths, and a measuring tape as a long lengths, and a measuring tape as a long lengths, and a measure objects long lengths, and a measuring lengths, and a long lengths, and a measure objects long lengths, and a long lengths, and lengths long lengths, and lengths long lengths, and a long lengths, and measuring lengths, and lengths long lengths, and measuring lengths, and lengths long lengths, and lengths long lengths, and measuring lengths, and measure long lengths, and measuring lengths, and measure long lengths, and measuring lengths, and measure long leng	measure lengths of objects	measuring an object	appropriate	measuring tool for a	work together to provide
measuring an object.  Recognize a ruler as a tool to measure short lengths, a tool to measure short lengths, a paropriate tool.  Short lengths, a paropriate tool.  Short lengths, a at a cool to measure a paropriate tool.  Short lengths, and a students "Write as tools to measure belects tool to measure a pollowup activity in measuring tape as a measure objects tool to measure a belonging to Penny.  Such as a dog bowl, a dog house, etc.  Recall estimation as making an educated guess.  Recall and apply classwoom objects the length of contineter, or meter the length of thumb is an inch, foot, centimeter, or meter the length of thumb is an inch, from the elbow to the pinky nail is a con the classwoom or at home.  Measuring Penny by deasuring Penny by classwoom objects thumb is an inch, from the elbow to the pinky nail is a con the left to right on the pinky nail is a con the classwoom or at home.  Measuring Penny by classwoom objects as a measuring penny by classwoom objects as a measuring penny by classwoom or at home.  Measuring Penny by classwoom objects as a measuring penny by classwoom or at home.  Measuring Penny by classwoom objects as a measuring penny by classwoom or at home.  Measuring Penny by cl	after selecting appropriate	and when to stop	measuring tool as	variety of real world	students with the support
Recognize a ruler as objects and the short lengths, a tool to measure short lengths, a tool to measure wardstick, meter stick as students "Write and a measuring tape as tool to measure a belonging to Penny such as a dog bowl, and measuring tape as tool to measure a belonging to Penny, such as a dog bowl, and making an educated guess.  Recall estimation as extendents estimate guess.  Recall and apply classroom objects the length of centimeter, or meter from the elbow to the pinky nail is a cm a meter).  Resognize a ruler as appropriate tool.  Recall estimation as elacated guess.  Recall estimation as the length of thumb is an inch, foot, centimeter, or meter the length of thumb is an inch, from the elbow to the pinky nail is a cm and a baseball bat is a meter).  Recognize and the top of a desk.  Adam the top of a destraing rulers.  Adam the top of a desk.  Ad	vardsticks meter sticks	measuring an object.	students identify	objects, such as a	they need as written in th
short lengths, a short lengths, a as students "Write and a measure lick and a measure stick and a measuring tape as tools to measure long lengths, and a measure which students which students tool to measure a measure object.  • Recall estimation as making an educated guess.  • Recall and apply long an inch, foot, centimeter, or meter the left to right on the left to right on the pinky nail is a cm and a baseball bat is colympics - students visit different stations  • A measure objects the length of the left to right on the length of the length of the left to right on the length of the length of the left to right on the length of the length of the left to right on the length of the length or a meter.  • Recall estimation as the length of the length or inch, pinky nail is a cm and a baseball bat is a meter.  • Recall estimation as the length of the length of the length or the lengths of objects in the classroom or at home.  • Recall estimation as the length or the lengt	and measuring tapes	<ul> <li>Recognize a ruler as</li> </ul>	objects and the	garbage can, a fence,	individualized education
short lengths, a yardstick, meter stick and a measuring tape as tools to measure long lengths, and a measure a curved object.  • Recall estimation as making an educated guess.  • Recall and apply centimeter, or meter thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	allu liicasutilig lapes	a tool to measure	appropriate tool.		plan
and a measuring tape as tools to measure long lengths, and a measuring tape as a tool to measure a curved object.  Recall estimation as making an educated guess. Recall and apply knowledge of how long an inch, foot, are. from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a measure world tool so first and a meter).		short lengths, a	Teacher observation     Section of the Control		
as tools to measure long lengths, and a measuring Penny followup activity in measure a tool to measure a tool to measure a tool to measure a belonging to Penny, such as a dog bowl, dog house, etc.  • Recall estimation as making an educated guess. • Recall and apply knowledge of how long an inch, foot, centimeter, or meter the length of thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is a meter).  • Measuring Penny followup activity in which students students such as a dog bowl, dog house, etc.  • Teacher observation ends the length of classroom objects world tools (first knuckle to the tip of thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is		and a measuring tape	the Room" in	classroom or at home	
long lengths, and a measuring tape as a which students tool to measure a curved object.  • Recall estimation as making an educated guess. • Recall and apply knowledge of how long an inch, foot, centimeter, or meter are.  • Recall estimation as measure objects the length of thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is a meter).  • Recall estimation as belonging to Penny, such as a dog bowl, dog house, etc.  • Teacher observation ends students estimate the length of classroom objects world tools (first knuckle to the tip of thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is a meter).		as tools to measure	Measuring Penny	using rulers,	
measuring tape as a measure objects tool to measure a belonging to Penny, such as a dog bowl, dog house, etc.  • Recall estimation as making an educated guess. • Recall and apply knowledge of how long an inch, foot, centimeter, or meter are.  • Teacher observation as as students estimate the length of classroom objects world tools (first knuckle to the tip of thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).		long lengths, and a	followup activity in	yardsticks, meter	
curved object.  curved object.  belonging to Penny, such as a dog bowl, dog house, etc.  • Recall estimation as making an educated guess. • Recall and apply knowledge of how long an inch, foot, centimeter, or meter are.  tool to measure a belonging to Penny, such as a dog bowl, dog house, etc.  • Teacher observation as students estimate the length of classroom objects world tools (first knuckle to the tip of thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).  •		measuring tape as a	which students	sticks, and measuring	
• Recall estimation as making an educated guess. • Recall and apply knowledge of how long an inch, foot, centimeter, or meter are.  • Recall estimation as a dog bowl, dog house, etc.  • Teacher observation as as students estimate the length of classroom objects using modeled real world tools (first knuckle to the tip of thumb is an inch, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	*	tool to measure a	measure objects	lapes.	
• Recall estimation as making an educated guess. • Recall and apply classroom objects knowledge of how long an inch, foot, centimeter, or meter are.  • Recall estimation as as students estimate the length of classroom objects using modeled real world tools (first knuckle to the tip of thumb is an inch, from the left to right on the pinty nail is a cm and a baseball bat is a meter).		cur yeu object.	such as a dog how!	Measuring Penny by	
• Recall estimation as making an educated the length of guess.  • Recall and apply classroom objects knowledge of how long an inch, foot, centimeter, or meter are.  • Recall and apply classroom objects using modeled real world tools (first knuckle to the tip of thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).			dog house, etc.	Loreen Leedy	
ts making an educated the length of the length of Recall and apply classroom objects knowledge of how long an inch, foot, centimeter, or meter are.  The length of the length of classroom objects using modeled real world tools (first knuckle to the tip of thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	2.MD.A.3 – WALT	<ul> <li>Recall estimation as</li> </ul>	Teacher observation	<ul> <li>Model real world</li> </ul>	
Recall and apply knowledge of how long an inch, foot, centimeter, or meter are.  from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	estimate lengths of objects	making an educated	as students estimate	objects as a means	
knowledge of how  long an inch, foot, centimeter, or meter  are.  from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	using the units of inches,	• Recall and apply	classroom objects	knuckle to the tip of	
y an inch, foot, world tools (first itmeter, or meter thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	feet, centimeters, or meters	knowledge of how	using modeled real	thumb is an inch,	
thumb is an inch, from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).		long an inch, foot,	world tools (first	from the elbow to the	
from the elbow to the wrist is a foot, from the left to right on the pinky nail is a cm and a baseball bat is a meter).	(8)	centimeter, or meter	knuckle to the tip of	wrist is a foot, from	
t is		are.	from the elhow to the	pinky nail is a cm	
t is			wrist is a foot, from	and a baseball bat is	
t is			the left to right on the	a meter.	
•			pinky nail is a cm		
•			ana a basebatt bat is	of objects in the	
			a meter).	home.	
visit different stations					
				visit different stations	

2.MD.A.4 – WALT  measure to determine how much longer one object is than the other and express the difference in length using a standard unit of least than and length length.  **Recall and apply how length a difference as the answer to a subtraction problem.  **DAD.A.2 – WALT**  measure the length of an object, the mail of measurement, the measurement unit chosen and of measurement, the measurement, the measurement, the measurement, the measurement unit chosen and the direct of the measurement, the measurement, the measurement, the measurement unit chosen and the direct of the measurement, the measurement unit chosen the theory of units.				
A.4 – WALT  • Recognize that each objects must be object is same tool and unit of less than as greater than and apply a difference as the answer to a subtraction problem.  • Recall and apply a difference.  • Recall and apply a subtraction problem.		~ =	The result house and should be report to the Architect and should be	2.MD.A.2 – WALT measure the length of an object twice using different units of measure  2.MD.A.2 – WALT describe how two different measurements of an object relate to the size of the measurement unit chosen
to estimate and then measure at each station; give out medals to the winners at each station				measure to determine how much longer one object is than the other and express the difference in length using a standard unit of length
	to estimate and then measure at each station; give out medals to the winners at each station			

2.MD.A.6 – WALT represent whole number differences within 100 on a	2.MD.A.6 – WALT represent whole number sums within 100 on a number line diagram	2.MD.A.6 – WALT use equally spaced points of a number line to represent whole numbers as lengths from 0	2.MD.A.5 – WALT use equations with a symbol for the unknown and drawings, such as drawings of rulers, to represent the problem	2.MD.A.5 – WALT add and subtract within 100 to solve word problems that involve lengths of the same units	
found by counting backward.	on a number tine can be found by counting forward.  Recognize that a difference on a number line can be	<ul> <li>Apply knowledge of whole numbers to draw a number line starting at different points, such as 30-45.</li> <li>Recognize that a sum</li> </ul>	<ul> <li>Recognize what is missing within a word problem, such as the sum, the difference, or an addend.</li> <li>Recognize that there are 12 inches in a ruler when drawing a ruler to represent the problem.</li> </ul>	<ul> <li>Recognize key vocabulary terms in a word problem for addition (altogether, in total, etc.) and subtraction (gave away, remove, etc.)</li> <li>Recall and apply addition and subtraction facts.</li> </ul>	
	a number line	<ul> <li>Exit Ticket-solve         addition problems by         counting forward on         a number line         Exit Ticket-solve         subtraction problems     </li> </ul>	• Exit Ticket-solve addition and subtraction problems using Part, Part, Whole (Bar Model)	• Exit Ticket - solve addition and subtraction word problems that involve equations where students have to add or subtract numbers in inches or centimeters	
difference of a subtraction problem.	sum of an addition problem.  • Jump backwards on a number line to count back to find the	<ul> <li>Draw a number line, writing numbers between a set of 10 (example: 30-40).</li> <li>Jump forward on a number line to count forward to find the</li> </ul>	• Model and use Part, Part, Whole (Bar Model) to solve word problems where students need to find the unknown number and represent it with a symbol.	Write word problems using key vocabulary words for addition and subtraction.  Practice math facts using flashcards or Xtramath online program https://xtramath.org/#/home/index	

Summative Assessment  Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Interdisciplinary Connections		add rows as needed)	Benchmark Assessment 2  Benchmark Assessment Modifications (ELL. Special Education, Gifted, At-risk of Failure,	Benchmark Assessment  Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Benchmark Assessment 1	nui ver line diagram
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	Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	Grade level: Grade 2	Timeframe:	
		Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	Unit Title: Mathematics Measurement Data and Data Representations — Unit 4 — Module A	
		Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	Unit Title: Mathematics Measurement Data and Data Representations — Unit 4 — Module A  Grade level: Grade 2	
		Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	
		Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module A	

preparation for multiplication in grade 3. their skills solve word problems involving money and telling time to the nearest five minutes, and revisit repeated addition in those figures into three equal shares and recognize that equal shares of identical wholes need not have the same shape. They solidify Building on their grade 1 experiences partitioning circles and rectangles into two and four equal shares, grade 2 learners also partition

demonstrate fluency for addition and subtraction within 20 using mental strategies. memory all sums of two one-digit numbers, demonstrate fluency for addition and subtraction within 100 using strategies, and objects to the nearest whole unit, or make repeated measurements of the same object to generate data. Grade 2 learners also represent data with picture and a bar graphs, representing a data set with up to four categories. This unit concludes as learners state from In the final unit of grade 2, learners generate measurement data and represent the data in line plots. They measure lengths of several

#### **Essential Questions**

#### Standards

### Standards (Taught and Assessed):

- 2.MD.D.9 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, where the horizontal scale is marked off in whole-number
- 🗖 2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.
- 2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown to represent the problem.
- 2.NBT.B.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
- 2.0A.B.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit

Key:

# Highlighted Career Ready Practices and 21st Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP11. Use technology to enhance productivity.

# **Social-Emotional Learning Competencies**

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### **Instructional Plan**

#### **Pre-Assessment and Reflection**

Pre-Assessment	
Modifications (ELL, Specia	504) and Reflections
(ELL, Special Education, Gifted, At-risk of Failure,	

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO-WALT	Student Strategies	Formative Assessment	Activities and Resources
We are learning to/that			

	<ul> <li>Have students survey</li> </ul>	• Exit Ticket-provide	Recognize that a bar	2.MD.D.10 – WALT draw
	<ul> <li>Have students survey the class/family and generate a tally chart based on the data collected (favorite snack, favorite sport, etc.)</li> <li>Put students in pairs to convert the data collected from the tally chart into a picture graph</li> </ul>	• Exit Ticket-provide students with data and have them create a picture graph to represent the data (differentiate using a different key based on student ability and understanding)	<ul> <li>Recognize that a picture graph is made up of a title, choices, a key, and a pictures to represent data</li> <li>Utilize the key as a means to count each picture by</li> </ul>	2.MD.D.10 – WALT draw a picture graph to represent a data set with up to four categories
	create a line plot that represents the data collected  • Ask students to identify the number of objects represented on top of each measurement when examining a line plot	measurement data for a number of objects and have students create a line plot that represents the data	<ul> <li>Recognize that each x on a line plot represents one object measured at a specific length Recognize that if there is not an x about a measurement on a line plot, no object measured at that length Recall and apply how to compare and contrast numbers</li> </ul>	2.MD.D.9 – WALT record measurements in a line plot whose horizontal scale is in whole number units
	multiple times  Have students use recorded data form the measurement of different objects to	represented on top of each measurement when examining a line plot  Exit Ticket: Provide	the other  Utilize tally marks to record measurement data as objects are measured	2.MD.D.9 – WALT generate measurement data by measuring the same object multiple times
General and Special Education teachers will work together to provide students with the support they need as written in their individualized education plan	<ul> <li>Have students work in groups to measure different objects and record data using tally marks</li> <li>Have students work in pairs to measure the same object</li> </ul>	<ul> <li>Teacher observation         as students measure         objects and collect         data</li> <li>Teacher observation         as students answer         questions regarding         the number of objects</li> </ul>	<ul> <li>Recall that data means information</li> <li>Recall and apply how to use different tools of measurement, including how to measure from one end of an object to</li> </ul>	2.MD.D.9 – WALT generate measurement data by measuring lengths, to the nearest whole unit, of several objects

2.MD.B.5 – WALT use equations with a symbol for the unknown and drawings, such as drawings	2.MD.B.5 – WALT add and subtract within 100 to solve word problems that involve lengths of the same units	2.MD.D.10 – WALT use information from a bar graph to solve simple put together, take-apart, and compare problems	a bar graph to represent a data set with up to four categories
se ol vings	Id do ) to nat same	and d	<i>p</i>
<ul> <li>Recognize what is missing within a word problem, such as the sum, the difference, or an</li> </ul>	<ul> <li>Recognize key vocabulary terms in a word problem for addition (altogether, in total, etc.) and subtraction (gave away, remove, etc.)</li> <li>Recall and apply addition and subtraction facts.</li> </ul>	• Utilize the length of each bar to determine which choice was chosen the most and the least	grapn is made up of a title, choices, scale and bars to represent data
<ul> <li>Exit Ticket-solve addition and subtraction problems using Part, Part, Whole (Bar Model)</li> </ul>	• Exit Ticket - solve addition and subtraction word problems that involve equations where students have to add or subtract numbers in inches or centimeters	• Exit Ticket-use a bar graph to solve addition and subtraction word problems	and have them create a bar graph to represent the data (differentiate using what numbers the scale skip counts by based on student ability and understanding)
<ul> <li>Model and use Part, Part, Whole (Bar Model) to solve word problems where students need to find</li> </ul>	<ul> <li>Write word problems using key vocabulary words for addition and subtraction</li> <li>Practice math facts using flashcards or Xtramath online program</li> </ul>	• Students collect data and create their own bar graphs. They then create questions about their bar graphs to ask a partner. Their partners then have to find the answers to the questions by either adding or subtracting using data found in the bar graph	generate a tally chart based on the data collected (favorite sport, etc.)  Put students in pairs to convert the data collected from the tally chart into a bar graph
rt, ord	ms ury	ns ns to	art rt, rs

10				
and or rg/	<ul> <li>Practice addition and subtraction facts using flash cards or Xtra Math online https://xtramath.org/#/home/index</li> <li>Fact Champ game</li> </ul>	<ul> <li>Quiz students using flashcards or timed interactive fact game</li> </ul>	<ul> <li>Utilize mental math strategies within 10 to memorize sums</li> </ul>	2.OA.B.2 – WALT know from memory all sums of two one-digit numbers
and or e	<ul> <li>Practice addition and subtraction facts using flash cards or Xira Math online <a href="https://xtramath.org/#/home/index">https://xtramath.org/#/home/index</a></li> <li>Fact Champ game</li> </ul>	<ul> <li>Quiz students using flashcards or timed interactive fact game</li> </ul>	<ul> <li>Utilize mental math strategies within 20 to memorize sums</li> </ul>	2.OA.B.2 – WALT add and subtract within 20 with accuracy and efficiency
lems ocks ocks nd el ind with	<ul> <li>Solve addition and subtraction problems using base ten blocks</li> <li>Demonstrate regrouping using base ten blocks and drawings to model how to solve problems</li> <li>Utilize the Go Math Interactive Lessons to model regrouping Provide students with a regrouping checklist for both addition and subtraction</li> </ul>	<ul> <li>ECR in which students model, solve, and explain in written word</li> <li>Have students model or draw how to solve a subtraction problem and then use addition to check their work</li> </ul>	<ul> <li>Solve problems by quickly using manipulatives or drawing pictures to solve problems</li> <li>Explain how the manipulatives or pictures show the math needed to solve the problem</li> <li>Apply model reasoning to standard algorithm</li> </ul>	2.NBT.B.5 – WALT add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction, with accuracy and efficiency
vith	the unknown number and represent it with a symbol		addend.  Recognize that there are 12 inches in a ruler when drawing a ruler to represent the problem.	of access, to represent the problem

#### Benchmark Assessment 1

Benchmark Assessment	Modifications (ELL, Special Education, Giffed, Al-risk of Failure,
	504) and Reflections

#### Benchmark Assessment 2

Benchmark Assessment		Modifications 504) and Refle

## Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

#### Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	504) and Reflections

Unit Title: Mathematics Measurement Data and Data Representations – Unit 4 – Module B

Grade level: Grade 2

Timeframe:

#### Rationale

Grade 2 – Measurement Data and Data Representations - Unit 4

figures into three equal shares and recognize that equal shares of identical wholes need not have the same shape. They solidify their skills solve word problems involving money and telling time to the nearest five minutes, and revisit repeated addition in preparation for multiplication in grade 3. Building on their grade 1 experiences partitioning circles and rectangles into two and four equal shares, grade 2 learners also partition those

and subtraction within 20 using mental strategies. two one-digit numbers, demonstrate fluency for addition and subtraction within 100 using strategies, and demonstrate fluency for addition picture and a bar graphs, representing a data set with up to four categories. This unit concludes as learners state from memory all sums of to the nearest whole unit, or make repeated measurements of the same object to generate data. Grade 2 learners also represent data with In the final unit of grade 2, learners generate measurement data and represent the data in line plots. They measure lengths of several objects

#### **Essential Questions**

Standards

Standards (Taught and Assessed):

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etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	© 2.G.A.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of,	triangles, quadrilaterals, pentagons, hexagons, and cubes.	© 2.G.A.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify	to express the total as a sum of equal addends.	■ 2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation	<b>2.NBT.A.2</b> Count within 1000; skip-count by 5s, 10s, and 100s.

Key: Major Cluster ☐ Supporting Cluster Additional Cluster

2.MD.C.8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and \$\phi\$ symbols appropriately. Example: If

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

you have 2 dimes and 3 pennies, how many cents do you have?

# Highlighted Career Ready Practices and 21st Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

# **Social-Emotional Learning Competencies**

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

#### **Pre-Assessment and Reflection**

504) and Reflections
Modifications (ELL, Special Education, Gifted, At-risk of Failure,

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

2.NBT.A.2 – WALT skip count by hundreds	2.NBT.A.2 – WALT skip count by tens	2.NBT.A.2 – WALT skip count by fives	2.NBT.A.2 – WALT count within 1000	SLO – WALT  We are learning to/that
<ul> <li>Recognize and apply number patterns</li> </ul>	<ul> <li>Recognize and apply number patterns</li> </ul>	<ul> <li>Recognize and apply number patterns</li> </ul>	<ul> <li>Recognize and apply number sequence</li> </ul>	Student Strategies
• Exit Ticket - continue the pattern up to 1,000 (e.g. 700, 800,	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 770, 780,)	• Exit Ticket - continue the pattern within a group of hundreds (e.g. 605, 610,	• Use hundreds chart with missing numbers (choose a group of a hundred to assess)	Formative Assessment
counting by (5's, 10's, 100's)  • Write 3 digit #'s on bottle caps that count by 5's, 10's, 100's	• Create task cards for independent work or center time. Write a 3-digit # on each card with directions	100 to make a connection to the numbers highlighted on a chosen hundreds chart	<ul> <li>Skip Count By 5's</li> <li>Skip Count By 10's</li> <li>Skip Count By 100's</li> <li>Using manipulatives (snap cubes, legos, pennies, cereal, beans, etc.) in groups of 5, 10 and</li> </ul>	Activities and Resources
			General and Special Education teachers will work together to provide students with the support they need as written in their individualized education plan	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

recognize and draw shapes based on their attributes, such as a given number of angles or a given number of equal faces  2G.A.1 – WALT identify cubes, triangles, quadrilaterals, pentagons, and hexagons	2.OA.C.4 – WALT write an equation to express the total number of objects arranged in a rectangular array as a sum of equal addends	2.OA.C.4 – WALT use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns	
<ul> <li>Recognize plane shapes (circles, squares, rectangles, triangles)</li> <li>Recall the number of faces, edges, angles, vertices in a 3-D shape</li> <li>Compare and contrast to identify attributes of different shapes</li> </ul>	<ul> <li>Recall and apply knowledge of the parts of an equation</li> <li>Recall and apply knowledge of addends</li> </ul>	<ul> <li>Utilize visual patterns of arrays to show repeated addition</li> </ul>	
<ul> <li>Teacher observation as partners describe the faces of a rectangular prism and the faces of a cube.</li> <li>Exit Ticket-Show pictures of various polygons and have students label their names.</li> </ul>	×	• Exit Ticket - provide a model of an array with the task of creating an equation using repeated addition	
<ul> <li>Sort shapes by attributes (number of angles, faces, etc.)</li> <li>Identify real-world objects that are cubes, triangles, quadrilaterals, pentagons, and hexagons</li> <li>Read The Greedy Triangle by Marilyn Burns and have students draw each shape as it is formed in the book Design 3-D Shape Monsters</li> </ul>	Write the Room - students visit different arrays and make a number sentence for each one	• Use cubes/counters to arrange arrays into columns and rows to model repeated addition, then write a repeated addition number sentence	and have students practice putting the numbers in order.

	2.MD.C.7 – WALT use analog and digital clocks to tell time to the nearest five minutes using a.m. and p.m.	2.G.A.3 – WALT partition circles and rectangles into two, three, or four equal shares  2.G.A.3 – WALT describe the shares using the words halves, thirds, fourths, half of, a third of, or fourth of  2.G.A.3 – WALT describe the whole as two halves, three thirds, four fourths  2.G.A.3 – WALT recognize that equal shares of identical wholes need not have the same shape
	<ul> <li>Recognize what each number on an analog clock represents</li> <li>Understand the difference between the hour and minute hand on an analog clock</li> </ul>	Recognize the concept of equal and unequal Recall how many equal parts are in halves, thirds, and fourths Identify different ways to describe a whole Recognize ways to partition different shapes into halves, thirds and fourths
C	<ul> <li>Draw hour and minute hands on clocks to demonstrate the correct time to the nearest 5 minutes</li> <li>Label a clock with the correct digits and values of each 5</li> </ul>	three squares and ask students to find three different ways to partition the squares into fourths. Students then explain how they know each square is partitioned into equal parts.  Teacher observation as students design a flag using partition equal parts
	<ul> <li>Telling Time to the         Nearest 5 Minutes         Learning the Clock         Use mini clocks (or create mini clocks) to model time to the nearest five minutes         Draw a line down a</li> </ul>	paper and encourage students to identify the number of equal parts created.  Show children a paper plate with a line drawn on it that divides the plate into two equal parts.  Explain that halves are two equal parts of a whole. Repeat with plates for three and four equal parts and identify the parts as thirds and fourths.  Have students work in groups and use different shapes to illustrate the same equal part. Then have the students share their shapes.  Ask children to discuss how the various models of halves, thirds, and different.
C		

2.MD.C.8 – WALT solve word problems involving dollar bills, quarters, dimes, nickels, and pennies using the \$ and ¢ symbols appropriately	
• •	• •
Use knowledge of the the values of dollar bills, quarters, dimes, nickels, and pennies to solve word problems in which they have to add and subtract values of money Recall and apply knowledge of place value	Recognize that every five minute interval is a fraction of an hour Recognize that there are 24 hours in a day, 12 being a.m and 12 being p.m. and be able to distinguish between the 2
•	•
Exit Ticket- addition and subtraction word problems involving money	minute increment Answer questions by telling whether the activity would happen in the a.m or p.m. hours
<ul> <li>Create and solve word problems involving money</li> <li>Create a class store, label items with various prices using \$ and \$ symbols appropriately</li> <li>Present pennies, nickels, dimes, and quarters as fractions of a dollar</li> </ul>	piece of paper and write the 12 a.m. hours on one side and the 12 p.m. hours on the other side. Have students fill in what they do each day during the times

#### Benchmark Assessment 1

#### Benchmark Assessment 2

Benchmark Assessment
Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

504) and Reflections	
Modifications (ELL, Special Education, Gifted, At-risk of Failure,	Summative Assessment
Modifications (ELL, Special Education, Gifted, At-risk of	essment

#### Interdisciplinary Connections