



Second Grade Math Unit 2



Stage 1- Desired Results

Focus Standards of the Modules

Module 4	2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, and write equations with a symbol for the unknown number to represent the problem.
Module 5	2.NBT.B.5 Add and subtract within 100 with computational fluency using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
Module 6	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.
Module 7	2.G.A.1 Recognize and draw shapes having specified attributes (e.g., number of angles, number of sides, or a given number of equal faces). Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. Note: Sizes are compared directly or visually, not compared by measuring.

Essential Questions

Module 4 : How can I use different measuring tools to solve problems?

Module 5: How can place value, properties of operations, and the relationship between addition and subtraction help me solve problems?

Module 6: How can I use data to help me solve problems?

Module 7: How can my understanding of shapes and their attributes help me solve problems?

Enduring Understandings

Students recognize a variety of ways to decompose numbers to solve problems and choose the decomposition most suited to the problem.

- Students recognize that place value can be used to add and subtract more efficiently.
- Students recognize properties of operations can be used to add and subtract more efficiently.
- Students recognize a measure results from iteration and accumulation of the units on the measurement scale.
- Students understand that data can be organized in many ways.

Stage 2: Assessments

Assessment 1: [FACTS FLUENCY ASSESSMENT](#) ([Fact Fluency Assessment Schedule](#))

Assessment 2: [Separate Change Unknown Assessment](#)

Assessment 3: [Multiplication Assessment](#)

Stage 3- Learning Activities

[Daily Number Work](#)

[2nd Grade Number Choice Progression](#)

Module 4: Measurements of Length & Time

Formative Assessments for Module 4:

- [Tobey Uncovering Student Thinking pg 130-131 136-137 Length Probes and Card Sort](#)
- [Telling Time](#)

Learning Goal	Lesson	Supports
LESSON 1: (5 days) Students will understand the meaning and placement of numeric symbols on the measuring tape.	Lesson 1: Unit 6 Rich Lehrer- Tape Measures with Standard Units Daily Number Work: • Is It Reasonable?	 Tobey Uncovering Student Thinking pg 130-131 136-137 Length Probes and Card Sort  Measuring the Same Object with 2 Different Units
LESSON 2: Students will understand arithmetic operations of whole number addition and subtraction as applied to measured lengths.	Lesson 2: Measurement Rich Lehrer Lesson 7 Whole Number Arithmetic with Measured Lengths Daily Number Work: • Make Your Own Ruler	
LESSON 3: (2 days) Students will read and write digital and analog time to ½ and ¼ hour.	Lesson 3: Ordering Time- Analog and Digital • Student Page Daily Number Work:	 Telling Time 

Students will effectively communicate using units of time.	● Ready For The Bell ○ Student Page	Read and Write Time Review of Half Hour
LESSON 4: (2 days) Students will read and write digital and analog time to the nearest five minutes.. Students will effectively communicate using units of time.	Lesson 4:Telling Time: 5 Minute Intervals ● Student Page ● Student Page ● Student Page Daily Number Work: ● Ready For The Bell ○ Student Page	 Read and Write Time

Module 5: Place Value, Properties of Operations, and the Relationship between Addition and Subtraction

Formative Assessments for Module 5: Teacher use as needed throughout the module.

- [Battista Addition/Subtraction Assessment with Guide](#)
- [Tobey Place Value on a Number Line Probes and Guide](#)
 - [Tobey Probe 4 What Number is That?](#)
 - [Tobey Probe 4a What Number is That?](#)
- [Tobey What is the Value of the Digit?](#)
 - [Tobey What is the Value of the Digit? Card Sort](#)
 - [Tobey What is the Value of the Digit? Probe 6](#)
- [Tobey What's Your Subtraction Strategy? Probes and Guide](#)
- [Tobey What's your Subtraction Strategy double digits](#)

Learning Goal	Lesson	Supports
	● MUoS Lesson: Critiquing the Reasoning of Others	
	● MUoS Lesson: Commutative Property of Addition	
	● MUoS Lesson: Decomposing Numbers to Multiply	
LESSON 1: Students will use knowledge of base 10 and the distributive property to multiply and divide numbers.	Lesson 1: Building Understanding of Base 10 with multiplication by groups of 10 ● Student Page Daily Number Work: ● Counting by 10 to 100 Interactive ● Counting by 10 to 300	 Battista Addition/Subtraction Assessment with Guide  Number Strips
LESSON 2: Students will explore the relationship between 2 distinct number sets by	Lesson 2: Comparing Numbers Using Increments of Tens ● Student page	

comparing differences or adding and subtracting using insightful chunks to determine how many more and how many fewer .	Daily Number Work: - Count forwards and backwards Adapted Minds Comparing Numbers Game	
LESSON 3: Students will explore the relationship between 2 distinct number sets by comparing differences or adding and subtracting using insightful chunks to determine how many more and how many fewer .	Lesson 3: Comparing Numbers Using Increments of Tens and Hundreds Student page Daily Number Work: - How Much Between? Adapted Minds Comparing Numbers Game	
	MUoS Lesson: Associative Property of Addition	
LESSON 4: Students will begin using the associative property of addition by adding by insightful chunks of tens and hundreds.	Lesson 4: Using Place Value to Add and Subtract Student Page Daily Number Work: - Quick! How Many Are There?	 Hundreds, Tens, Ones
	MUoS Lesson: The Relationship between Addition and Subtraction	
LESSON 5: Students will use the relationship between addition and subtraction by incrementing (or count up or back) using insightful and purposeful chunks. (Associative Property of Addition)	Lesson 5: Using the Relationship between Addition and Subtraction Student page Daily Number Work: - Number Talk	 Combinations in Addition
LESSON 6: Students will share objects into groups with a focus on building a conceptual understanding of even and not even (odd).	Lesson 6: Building Understanding of Even and Odd Student page Daily Number Work: - Fair Shares for Two	
LESSON 7: Students will share objects into groups with a focus on building a	Lesson 7: Understanding Even and Odd Numbers through Partitive Division Student page	

conceptual understanding of even and not even (odd).	Daily Number Work: Odd and Even Link: Even Steven and Odd Todd Storylink	
LESSON 8: Students will use knowledge of base 10 and the distributive property to multiply while further exploring the concept of even and odd..	Lesson 8: Building Understanding of Base 10 with Multiplication Student page Daily Number Work: Number of the Day	 Tobey What is the Value of the Digit?
LESSON 9: Students will solve two-step problems using place value strategies.	Lesson 9: Understanding Place Value through Multistep Problems Student page	 Addition Practice
LESSON 10: Students will explore the relationship between addition and subtraction in problem solving.	Lesson 10: Using the Relationships between Addition and Subtraction Student Page Daily Number Work: - Number Talks - Salute	 The Dollar Store
LESSON 11: Students will use the relationship between addition and subtraction by incrementing (or count up or back) using insightful and purposeful chunks. (Associative Property of Addition within Subtraction- Associative-like Thinking)	Lesson 11: Using the Relationships between Addition and Subtraction and Associative-like Thinking in Subtraction Student Page Daily Number Work: Counting with Base-Ten Models Student page	 Tobey What's Your Subtraction Strategy? Probes and Guide  Fact Fluency Practice
LESSON 12: Students will examine the relationship between 2 static sets by adding and subtracting a benchmark number of 5, 10, or 100. (Associative Property of Addition)	Lesson 12: Seeing Relationships of Numbers through Adding and Subtracting Student Page Daily Number Work: Counting with Base-Ten Models Student page	 Paper Clip Problems
LESSON 13: Students will use	Lesson 13: Measurement Division to Build Understanding of Base 10	

knowledge of base 10 and the distributive property to multiply and divide numbers.	• Student page Daily Number Work: • Number of the Day • Divide and Conquer!	
LESSON 14: Students will increment (or count up or back) using insightful and purposeful chunks. (Associative Property of Addition)	Lesson 14: Using the Relationships between Addition and Subtraction with Invented Algorithms • Student Page Daily Number Work: • Break It	 Subtraction
LESSON 15: Students will explore the relationship between addition and subtraction.	Lesson 15: Using the Relationships between Addition and Subtraction • Student page Daily Number Work: • Student page	 More Subtraction

Module 6: Understanding Data & Graphing		
Formative Assessments for Module 4: • Tobey Graphing Formative Assessment Probes and Guide ◦ Tobey Graphing Probe 24 ◦ Tobey Graphing Probe 24a • Tobey Graphing Probe 24B		
Learning Goal	Lesson	Supports
LESSON 1: (1-2 days) Students will create graphs to communicate information and solve problems.	Lesson 1: Creating Graphs to Communicate Information Daily Number Work • Splashmath Graphing Games	 Tobey Graphing Formative Assessment Probes and Guide  What Do You Collect?
LESSON 2: Students will create graphs to communicate information and solve	Lesson 2: Reading Tables • Student Pages 1 • Student Pages 2	

problems.	Daily Number Work Splashmath Graphing Games	
LESSON 3: Students will use data to solve comparison problems	Lesson 3: Using Data from a Table to Solve Comparison Problems Student Pages 1 Student Pages 2 Daily Number Work Splashmath Graphing Games	 Representing Data

Module 7: Shapes & Their Attributes		
Formative Assessments for Module 4: Tobey Uncovering Student Thinking pg 155-158 Shapes Tobey Uncovering Student Thinking pg. 170 Fractions of Shapes		
Learning Goal	Lesson	Supports
LESSON 1: (2-3 days) Students will write directions for and then construct a rectangular walking path to explore angle as a rotation (a turn).	Lesson 1: Measurement Rich Lehrer Angle Unit 2: Ribbon Paths Daily Number Work: Recognizing Polygons	 Tobey Uncovering Student Thinking pg 155-158 Shapes
LESSON 2: Students will construct and name shapes defined by angles and line segments and complete constructed responses to explain understanding.	Lesson 2: Shapes and Their Attributes Daily Number Work: Create an anchor chart with attributes of shapes	 Cover and Count
LESSON 3: Students will partition shapes into equal shares and name shares according to the size of the partitions.	Lesson 3: Partitioning Shapes Student Page Daily Number Work: - Keeping It Fair	 Fly Away
	Additional Lessons for Partitioning Shapes	

