



Course Name Grade 2 Math

Approved: August 26, 2024

Unit Title Unit 1 Numbers Within 20: Addition, Subtraction, and Data

STAGE 1 | DESIRED RESULTS

Context and relevance for student learning

Standards	Transfer	
<p>CC.2.2: Algebraic Concepts CC.2.2.2.A.1 Represent and solve problems involving addition and subtraction within 100.</p> <p>CC.2.2.2.A.2 Use mental strategies to add and subtract within 20.</p> <p>CC.2.4: Measurement, Data and Probability CC.2.4.2.A.4 Represent and interpret data using line plots, picture graphs, and bar graphs.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Students will independently use their addition, subtraction, data interpretation, and problem-solving skills to solve real-life problems and effectively communicate and collaborate with others. 	
	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Different strategies, such as making a ten and doubles plus one, can help students add and subtract. <input type="checkbox"/> Students can use what they know about the relationship between addition and subtraction to solve problems. <input type="checkbox"/> Organizing data into graphs can help students answer questions about the data. <input type="checkbox"/> Knowing how to model a problem with pictures or 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Which strategy should I use to add or subtract? <input type="checkbox"/> How can I use what I know about the relationship between addition and subtraction to solve problems? <input type="checkbox"/> How can I organize data into graphs to help answer questions about the data? <input type="checkbox"/> How can I use pictures or diagrams to help solve a problem?

	<p>diagrams can help students solve problems.</p>	
Acquisition		
	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I know how to represent and solve problems involving addition and subtraction within 100. <input type="checkbox"/> I know how to use mental strategies to add and subtract within 20. <input type="checkbox"/> I know how to represent and interpret data using line plots, picture graphs and bar graphs. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I can represent and solve problems involving addition and subtraction within 100. <input type="checkbox"/> I can use mental strategies to add and subtract within 20. <input type="checkbox"/> I can represent and interpret data using line plots, picture graphs, and bar graphs. <input type="checkbox"/> I can use count on, fact families, and make a ten to add and subtract. <input type="checkbox"/> I can solve a one-step word problem. <input type="checkbox"/> I can draw and find information from picture graphs and bar graphs. <input type="checkbox"/> I can use addition and subtraction to solve a problem with more than one step. <input type="checkbox"/> I can listen carefully during discussion in order to understand another person's ideas and ask questions about what they do not understand.



Course Name Grade 2

Unit Title Unit 2 Numbers Within 100: Addition, Subtraction, Time, and Money

STAGE 1 | DESIRED RESULTS

Context and relevance for student learning

Standards	Transfer	
<p>CC.2.1: Numbers and Operations CC.2.1.2.B.3 Use place value understanding and properties of operations to add and subtract within 1000.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> ❑ Students will add and subtract using place value and operational strategies, while also mastering money-related word problems and time-telling. 	
<p>CC.2.2: Algebraic Concepts CC.2.2.2.A.1 Represent and solve problems involving addition and subtraction within 100.</p> <p>CC.2.4: Measurement, Data and Probability CC.2.4.2.A.3 Solve problems and make change using coins and paper currency with appropriate symbols</p>	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> ❑ Adding or subtracting from a tens number can make a problem easier. Knowing how to break apart numbers to get to the nearest ten can help students solve addition and subtraction problems. ❑ Models can represent word problems. Knowing how to create a good model will help students solve one- or two-step word problems. ❑ Students can use what they know about skip counting by 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> ❑ How can we break apart numbers to get to the nearest ten to solve addition and subtraction problems? ❑ How can I use a model to solve one- or two-step word problems? ❑ How can I use skip counting by fives to tell time to the nearest five minutes?

	fives to help them tell time to the nearest 5 minutes.	
Acquisition		
	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I know how to use place value and properties of operations to add and subtract within 1000. <input type="checkbox"/> I know how to represent and solve problems involving addition and subtraction within 100. <input type="checkbox"/> I know how to solve problems and make change using coins and paper currency with appropriate symbols. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I can use place value understanding and properties of operations to add and subtract within 1000. <input type="checkbox"/> I can represent and solve problems involving addition and subtraction within 100. <input type="checkbox"/> I can solve problems and make change using coins and paper currency with appropriate symbols. <input type="checkbox"/> I can add tens, add ones, and add two-digit numbers. <input type="checkbox"/> I can regroup ones as a ten and decompose a ten. <input type="checkbox"/> I can subtract two digit numbers <input type="checkbox"/> I can solve one step and two step word problems by adding or subtracting two digit numbers. <input type="checkbox"/> I can solve word problems involving money. <input type="checkbox"/> I can tell and write time to the nearest five minutes. <input type="checkbox"/> I can actively participate in discussions by asking questions and rephrasing or building on my classmates' ideas.



Course Name Grade 2

Unit Title Unit 3 Numbers Within 1,000: Place Value, Addition, and Subtraction

STAGE 1 | DESIRED RESULTS

Context and relevance for student learning

Standards	Transfer	
<p>CC.2.1: Numbers and Operations CC.2.1.2.B.1 Use place value concepts to represent amounts of tens and ones and to compare three digit numbers.</p> <p>CC.2.1.2.B.2 Use place value concepts to read, write, and skip count to 1000.</p> <p>CC.2.1.2.B.3 Use place value understanding and properties of operations to add and subtract within 1000</p>	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> ❑ Students will use place value to manipulate and compare three-digit numbers, applying these skills to addition and subtraction. They will also develop the ability to justify their problem-solving strategies. 	
	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> ❑ The value of a digit in a number depends on its place in the number. Knowing about place value will help students determine the total value of a number and will help them read, write and compare numbers. ❑ Students can use what they know about place value to mentally add 10 or 100 to numbers or subtract 10 or 100 from numbers. 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> ❑ How can I use the place value of a number to read, write and compare numbers? ❑ How can I use what I know about place value to mentally add 10 or 100 to numbers or subtract 10 or 100 from numbers? ❑ How can I use place value to break apart numbers as a strategy for adding or subtracting?

	<ul style="list-style-type: none"> ❑ Knowing about place value will help students break apart numbers as a strategy for adding or subtracting. 	
Acquisition		
	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> ❑ I know how to use place value concepts to represent amounts of tens and ones and to compare three digit numbers. ❑ I know how to use place value concepts to read, write, and skip count to 1000. ❑ I know how to use place value and properties of operations to add and subtract within 1000. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> ❑ I can use place value concepts to represent amounts of tens and ones and to compare three digit numbers. ❑ I can use place value concepts to read, write, and skip count to 1000. ❑ I can use place value understanding and properties of operations to add and subtract within 1000. ❑ I can build three-digit numbers in different ways. ❑ I can read, write, and compare three-digit numbers. ❑ I can add 10 or 100 to a number. ❑ I can add or subtract three-digit numbers. ❑ I can use different strategies to add and subtract. ❑ I can add more than 2 two-digit numbers. ❑ I can justify solutions to problems about three-digit numbers by telling what I noticed and what I decided to do as a result.





Course Name Grade 2 Math

Unit Title Unit 4 Length: Measurement, Addition and Subtraction, and Line Plots

STAGE 1 | DESIRED RESULTS

Context and relevance for student learning

Standards	Transfer	
<p>CC.2.4: Measurement, Data and Probability</p> <p>CC.2.4.2.A.1 Measure and estimate lengths in standard units using appropriate tools.</p> <p>CC.2.4.2.A.4 Represent and interpret data using line plots, picture graphs, and bar graphs.</p> <p>CC.2.4.2.A.6 Extend the concepts of addition and subtraction to problems involving length</p>	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Students will become adept at measuring lengths accurately and interpreting data using graphs, applying addition and subtraction concepts to solve problems involving length. 	
	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Different tools and units can be used to measure length. Knowing about measurement will help students to estimate and compare lengths. <input type="checkbox"/> Students can use addition or subtraction to find the difference between the lengths of objects. 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> How can I use different tools and units to measure, estimate, and compare lengths? <input type="checkbox"/> How can I use addition and subtraction to find the difference between the lengths of objects?
	Acquisition	
<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I understand how to use tools to measure and compare lengths. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I can measure and estimate lengths in standard units using appropriate tools. 	

	<ul style="list-style-type: none">❑ I understand how to represent and interpret data using line plots, picture graphs, and bar graphs.❑ I understand how to extend the concepts of addition and subtraction to problems involving length.	<ul style="list-style-type: none">❑ I can represent and interpret data using line plots, picture graphs, and bar graphs.❑ I can extend the concepts of addition and subtraction to problems involving length.❑ I can choose a tool to measure the length of an object.❑ I can compare lengths to tell which of two objects is longer and how much longer that object is.❑ I can add and subtract lengths to solve problems.❑ I can add and subtract lengths on a number line.❑ I can measure lengths to show data on a line plot.❑ I can agree or disagree with ideas in discussions about length problems and explain why.
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Course Name Grade 2 Math

Unit Title Unit 5 Shapes and Arrays: Partitioning and Tiling Shapes, Arrays, Evens and Odds

STAGE 1 | DESIRED RESULTS

Context and relevance for student learning

Standards	Transfer	
<p>CC.2.2: Algebraic Concepts CC.2.2.2.A.3 Work with equal groups of objects to gain foundations for multiplication.</p> <p>CC.2.3: Geometry CC.2.3.2.A.1 Analyze and draw two- and three-dimensional shapes having specified attributes.</p> <p>CC.2.3.2.A.2 Use the understanding of fractions to partition shapes into halves, quarters, and thirds.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> ❑ Students will foster spatial analysis, geometric visualization, fraction partitioning, shape recognition, division of shapes, arithmetic application in arrays, and number classification.. 	
	Meaning	
	<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> ❑ Knowing the number of sides and angles a shape has can help students identify the shape. ❑ Students can use what they know about dividing a shape into equal parts to show halves, thirds, and fourths. ❑ An array is an arrangement of objects in equal rows and columns. Students can use what they know about addition and skip counting to 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> ❑ How can I use the number of sides and angles a shape has to identify the shape? ❑ How can I use what I know to divide a shape into equal parts to show halves, thirds, and fourths? ❑ How can I use what I know about addition and skip counting to find the number of objects in an array?

	find the number of objects in an array.	
Acquisition		
	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I know how to work with equal groups of objects to gain foundations for multiplication. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I can analyze and draw two- and three-dimensional shapes having specified attributes. <input type="checkbox"/> I can use the understanding of fractions to partition shapes into halves, quarters, and thirds. <input type="checkbox"/> I can recognize and draw different shapes. <input type="checkbox"/> I can divide shapes into equal parts. <input type="checkbox"/> I can break up a rectangle into squares. <input type="checkbox"/> I can find the total number of squares used to tile a rectangle by counting them. <input type="checkbox"/> I can use addition to find the total number of objects in an array. <input type="checkbox"/> I can find even and odd numbers.