

2nd Grade Math Curriculum Unit Map

Taneyville R-II School

2022-2023

Grade: 2nd

Subject: Math

Quarter: 1

Unit Title: Unit 2: Place Value to 1,000

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.NBT.A.1 Understand the place value of three digit numbers.	Hundreds, tens, base-ten blocks	-Students explain hundreds with regard to place value. -Base-ten blocks	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Digit, ones, place-value chart	-Students explain what the digits in a 3-digit number represent. -Base-ten blocks -3-digit numbers chart	
	Decompose, expanded form, standard form, word form	-Students read and write numbers to 1,000 -Base-ten blocks -Notecards	
	Decompose, place value	-Students decompose 3-digit numbers by grouping the hundreds, tens, and ones in different ways -Base-ten blocks	
	Compare, equal to (=), greater than (>), less than (<)	-Students compare two 3-digit numbers using the verb compare -Number cards 0-10 -Base-ten blocks	

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Taneyville R-II School

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Grade: 2nd

Subject: Math

Quarter: 1

Unit Title: Unit 3: Patterns within Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.NBT.B Use place value understanding and properties of operations to add and subtract. 2.RA.A Add and subtract within 20. 2.RA.B Develop foundations for multiplication and division.	Column, pattern, row	-Students describe patterns when counting by 1s within 1,000 -Counters -Number cards 0-10 -Number chart 201-300 -Number chart 401-500	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Skip count	-Student skip counts by 5s within 1,000 -Number chart 1-100	
	Skip count	-Students skip count by 10s and 100s within 1,000	
	Even, odd	-Students determine if the number of objects in a group is even or odd -Counters -Number cards 0-10	
	Doubles, near doubles	-Students write an equation to express an even number as a sum of two equal addends -Connecting cubes	
	Array	-Students use skip counting to find the total number of objects in an array	

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		-Counters -Paper clips	
	Repeated addition	-Students use arrays to find the sum of equal addends -Connecting cubes -Counters	

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Grade: 2nd

Subject: Math

Quarter: 2

Unit Title: Unit 4: Place Value to 1,000

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.NBT.B Use place value understanding and properties of operations to add and subtract. 2.RA.B Develop foundations for multiplication and division.	Addend, part-part-whole mat, unknown	-Students represent and solve Add To problems -Number cubes 0-5 and 5-10	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Bar diagram	Students represent and solve Take From problems -Bar diagram -Number cubes 0-5 and 5-10	
	Sum	-Students solve two-step Add To and Take From problems -Number cubes 5-10 -Word Problem cards	
	Unknown	Students represent and solve Put Together problems -Number cubes 0-5 and 5-10 -Part-Part-Whole mat -Word problem cards	
	Unknown	-Students represent and solve Take Apart problems -Number cubes 0-5 and 5-10 -Word problem cards	

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2.NBT.B Use place value understanding and properties of operations to add and subtract. 2.RA.B Develop foundations for multiplication and division.	Unknown	-Students solve two-step Put Together and Take Apart problems -Number cubes 0-5 -Word problem cards	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Compare	-Students represent and solve Compare problems -Bar diagram -Number cubes 0-5 and 5-10 -Word problem cards	
	Compare	-Students solve two-step problems involving comparison -Base-ten blocks -Number cubes 0-5 -Word problem cards	
	Unknown	-Students solve two-step problems using addition and subtraction -Connecting cubes -Number cubes 0-5 -Word problem cards	

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Grade: 2nd

Subject: Math

Quarter: 2

Unit Title: Unit 5: Strategies to Fluently Add within 100

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.RA.A Add and subtract within 20.	Addend, count on, doubles, near doubles	-Students add fluently within 20 -Number line 0-20 -Counters -Number cards 0-10	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Regroup	-Students represent addition of 2-digit numbers to find the sum -Base-ten blocks -Place value chart	
	Addend	-Students understand that addends added in any order have the same sum -Base-ten blocks -place value chart	
	Decompose, friendly numbers, partial sums, place value	-Students decompose two addends to add -Base-ten blocks -Index cards -Place value chart	
	Number line	-Students use a number line to add -Base-ten blocks -Number lines and bars (addition)	

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	Decompose, number line	-Students decompose one addend to add -Blank open number lines	
2.RA.A Add and subtract within 20.	Adjust, friendly numbers	-Students adjust addends to add -Base-ten blocks -Blank open number lines	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Adjust, decompose	-Students add up to four 2-digit numbers -Number cubes -Paper	

2nd Grade Math Curriculum Unit Map

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Grade : 2nd

Subject: Math

Quarter: 2

Unit Title: Unit 6: Strategies to Fluently Subtract within 100

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.RA.A Add and subtract within 20.	Count back, count on, decompose	-Students subtract fluently within 20 -Number cards 0-10 -Number cubes -Number line 0-20 -Number bond 1 -Number cards 11-19 -Number line 0-20 -Ten frames	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Difference	-Students represent and solve 2-digit subtraction equations that require no regrouping -Base-ten blocks -Blank open number lines -number chart 1-100	
	Regroup	-Students represent and solve 2-digit subtraction equations that require regrouping -Base-ten blocks -Number chart 1-100	
	Number line	-Students use a number line to subtract -Number cards 11-19	

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		<ul style="list-style-type: none">-Number cubes-Number line and bars (subtraction)	
	Decompose, place value	<ul style="list-style-type: none">-Students decompose one number by place value to subtract 2-digit numbers-Blank open number line-Decomposition boxes and arrows	
	Adjust, friendly numbers	<ul style="list-style-type: none">-Students adjust numbers to subtract-Paper-Pencil	
	Related facts	<ul style="list-style-type: none">-Students use addition to solve 2-digit subtraction equations-Index cards-Number cubes-Part-part whole mat	
	Adjust, decompose	<ul style="list-style-type: none">-Students solve one-step word problems within 100-Base-ten blocks-Blank open number lines-Number cards 20-100-Number cubes	

2nd Grade Math Curriculum Unit Map

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Grade : 2nd

Subject: Math

Quarter: 3

Unit Title: Unit 7: Measure and Compare Lengths

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.GM.B Measure and estimate lengths in standard units. 2.GM.C Relate addition and subtraction to length.	Inch, length, unit	-Students measure the length of objects in inches. -Inch ruler -Number cards 0-10	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Foot/feet, yard, yardstick	-Students measure the length of objects in feet and yards -Inch ruler -Yard measuring tape	
	Customary unit	-Students determine the difference in length of two objects measured with the same unit -Inch ruler -Yard measuring tape	
	Foot/feet, inch, yard	-Students explain the relationships between inches, feet and yards -Inch ruler -Yard measuring tape	
	Estimate	-Students use everyday objects with lengths similar to inches and feet to estimate lengths	

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		<ul style="list-style-type: none">-Connecting cubes-Inch ruler	
	Centimeter, meter, meter stick	<ul style="list-style-type: none">-Students measure the length of objects in centimeters and meters-Centimeter ruler-Meter measuring tape	
	Metric unit	<ul style="list-style-type: none">-Students determine the difference in length of two objects measured with the same unit.-Centimeter ruler-Meter measuring tape	
	Centimeter, Meter	<ul style="list-style-type: none">-Students explain the relationship between centimeters and meters-Centimeter ruler-Meter measuring tape-Number cards 0-10	
	Estimate	<ul style="list-style-type: none">-Students use everyday objects with lengths similar to centimeters and meters to estimate length-Centimeter ruler-Meter measuring tape	
	Length	<ul style="list-style-type: none">-Students solve addition and subtraction word problems involving length-Students use number lines to solve addition and subtraction word	

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		problems involving length -Number chart 1-100 -Yard measuring tape -Blank number lines 2 -Centimeter ruler	
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Grade: 2nd

Subject: Math

Quarter: 3

Unit Title: Unit 8: Measurement: Money and Time

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.GM.D Work with time and money.	Cent, dime, nickel, penny, quarter	-Students identify the value of these U.S. coins: penny, nickel, dime, quarter -Coin value cards -Counters -Pennies, nickels, dimes, quarters	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Cent, dime, nickel, penny, quarter	-Students determine the value of a set of coins of different denominations -Number chart 1-100 -Paper bag -Pennies, nickels, dimes, quarters	
	Dollar bill, dollar sign	-Students solve problems with dollar bills or coins -Index cards	
	Analog clock, digital clock, half past, hour hand, minute hand, quarter past, quarter to	-Students use analog and digital clocks to tell and write time -Clocks -Time cards	

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	A.m. and P.m.	<ul style="list-style-type: none">-Students determine whether the times of an event is a.m. or p.m.-Index cards-Student clocks-Timeline	
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Grade: 2nd

Subject: Math

Quarter: 3

Unit Title: Unit 9: What strategies can I use to add 3-digit numbers?

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.NBT.B Use place value understanding and properties of operations to add and subtract.	Hundreds	Students mentally add 10 or 100 to a 3-digit number -Base-ten blocks -Blank open number lines -Number cubes	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Addend	Students represent and solve 3-digit addition equations that require no regrouping -Base-ten blocks -Hundreds, tens and ones place value chart -Number cards 0-10	
	Regroup	Students represent and solve 3-digit addition equations that require regrouping the ones and tens -Base-ten blocks -Hundreds, tens and ones place value chart -Number cubes	

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	Decompose, partial sums	Students decompose two addends to add 3-digit numbers -Base-ten blocks -Hundreds, tens and ones place value chart -Index cards	
	Decompose	Students decompose one addend to add 3-digit numbers -Blank open number lines -Number cubes 0-5	
	Adjust, friendly numbers	Students adjust addends to add 3-digit numbers -Base-ten blocks, blank open number lines -Number cubes	
	Adjust, decompose	Students explain the strategies they use to add 3-digit numbers -Number cubes 0-5 and 5-10	

2nd Grade Math Curriculum Unit Map

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Grade: 2nd

Subject: Math

Quarter: 4

Unit Title: Unit 10: Strategies to subtract 3-digit numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.NBT.A.1 Understand the place value of three digit numbers. 2.NBT.B Use place value understanding and properties of operations to add and subtract.	Hundreds, tens	-Students mentally subtract 10 or 100 from a 3-digit number -Base-ten blocks, blank open number lines, number cards 0-10	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Place value	-Students represent and solve 3-digit subtraction equations that require no regrouping -Base-ten blocks, blank open number lines, number cubes, place value chart	
	Decompose	-Students decompose one number by place value to count back to subtract 3-digit numbers -Blank open number lines, number cards 0-10	
	Related facts	-Students count on to subtract 3-digit numbers -Blank open number lines, index cards, number cubes	
	Regroup	-Students represent and solve 3-digit subtraction equations that require regrouping a ten.	

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		<ul style="list-style-type: none">-Students represent and solve 3-digit subtraction equations that require regrouping a ten and a hundred.-Base-ten blocks, number cards 0-10, number cubes 0-5	
	Adjust, friendly numbers	<ul style="list-style-type: none">-Students adjust numbers to subtract 3-digit numbers-Blank open number lines, number cubes	
	Adjust, decompose	<ul style="list-style-type: none">-Students explain the strategies they use to subtract 3-digit numbers-Students solve one-step or two-step addition or subtraction word problems-Number cubes, base-ten blocks	

2nd Grade Math Curriculum Unit Map

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Grade : 2nd

Subject: Math

Quarter: 4

Unit Title: Unit 11: Data Analysis

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
2.DS.A Represent and interpret data. 2.GM.B Measure and estimate lengths in standard units.	Category, data, key, picture graph, tally chart, tally marks, title	-Students draw a picture graph to represent data -Picture graph	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Bar graph	-Students draw a bar graph to represent data -Bar graphs, connecting cubes	
	Bar graph	-Students draw a bar graph to solve problems -Bar graphs, connecting cubes, brown paper bags	
	Centimeters, inches	-Students collect measurement data by measuring the length of objects and organizing it in a tally chart -Base-ten tens rods, centimeter ruler, connecting cubes, inch rulers, measuring tape, tally chart	
	Centimeters, inches, line plot	-Students interpret measurement data on a line plot -Paper	
	Centimeters, inches, line plot	-Students make a line plot to show the measurement of lengths of objects	

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		-Line plot	
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Grade : 2nd

Subject: Math

Quarter: 4

Unit Title: Unit 12: Geometric Shapes and Equal Shares

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
.2.GM.A Reason with shapes and their attributes.	Angle, attribute, pentagon, polygon, quadrilateral	-Students recognize 2-dimensional shapes based on their defining attributes -2-dimensional shapes	-Lesson worksheets -Check for understanding -Math probe -Formative unit assessment
	Hexagon, pentagon, quadrilateral, triangle	-Students draw 2-dimensional shapes based on their defining attributes -Geoboards, number cubes, straightedges	
	Apex, base, edge, face, rectangular prism, vertex	-Students recognize 3-dimensional shapes based on their defining attributes -Geometric solids, real-life solids	
	Equal shares, fourths, halves, partition, thirds	-Students identify equal shares -Students relate equal shares of the same shape -Number cubes, paper circles, rectangles and squares, scissors, string and tape, spinner labeled 2, 3, 4	
	Column, repeated addition, row, skip count	-Students partition rectangles into rows and columns of squares of equal size -1 inch grid paper, 1 inch square tiles,	

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		color tiles	
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