SECOND GRADE CURRICULUM MAP



BLACKFORD COUNTY SCHOOLS

	Result Unknown	Change Unknown	Start Unknown
Add to	Two bunnies sat on the grass. Three more bunnies hopped there. How many bunnies are on the grass now?	Two bunnies were sitting on the grass. Some more bunnies hopped there. Then there were five bunnies. How many bunnies hopped over to the first two?	Some bunnies were sitting on the grass. Three more bunnies hopped there. Then there were five bunnies. How many bunnies were on the grass before?
	2+3=? Five apples were on the table. I ate two apples. How many apples are on the table now?	2 + ? = 5 Five apples were on the table. I ate some apples. Then there were three apples. How many apples did I eat?	?+3=5 Some apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table before?
<u>Take from</u>	<u>5 – 2 = ?</u>	<u>5 - ? = 3</u>	? – 2 = 3
	<u>Total Unknown</u>	Addend Unknown	Both addends Unknown
Put Together/	Three red apples and two green apples are on the table. How many apples are on the table?	Five apples are on the table. Three are red and the rest are green. How many apples are green?	Grandma has five flowers. How many can she put in her red vase and how many in her blue vase? 5 = 0 + 5, 5 = 5 + 0
<u>Together/</u> <u>Take Apart</u>	<u>3 + 2 = ?</u>	<u>3 + ? = 5, 5 – 3 = ?</u>	$\begin{array}{ll} \underline{5=1+4,5+4+1} \\ \underline{5=2+3,5=3+2} \\ \underline{\text{Difference}} & \underline{\text{Bigger}} & \underline{\text{Smaller}} \\ \underline{\text{Unknown}} & \underline{\text{Unknown}} & \underline{\text{Unknown}} \end{array}$
	<u>Difference Unknown</u>	<u>Bigger Unknown</u>	<u>Smaller Unknown</u>
<u>Compare</u>	("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy? ("How many fewer?" version): Lucy has two apples. Julie has five apples. How may fewer apples does Lucy have than Julie? 2 + ? = 5, 5 - 2 = ?	(Version with "more"): Julie has 3 more apples than Lucy. Lucy has two apples. How many apples does Julie have? (Version with "fewer"): Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Julie have? 2+3=?,3+2=?	Julie has three more apples than Lucy. Julie has five apples. How many apples does Lucy have? (Version with "fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have? 5-3=?,?+3=5

	Addition Strategies	
<u>Name</u>	<u>Clarification</u>	Work Sample
Counting All	 Student counts every number Students are not yet able to add on from either addend, they must mentally build every number 	8 + 9 1,2,3,4,5,6,7,8,9,10,11,12,13
Counting On	 Transitional strategy Student starts with 1 number and counts on from this point 	8 + 9 89,10,11,12,13,14,15
<u>Doubles/</u> <u>Near Doubles</u>	Student recalls sums for many doubles	$\frac{8+9}{8+(8+1)}$ $\frac{(8+8)+1}{16+1=17}$
Making Tens	Student uses fluency with ten to add quickly	$\frac{8+9}{(7+1)+9}$ $\frac{7+(1+9)}{7+10=17}$
Making Friendly Numbers/ Landmark Numbers	 Friendly number are number that are easy to use in mental computation Student adjusts one or all addends by adding or subtracting to make friendly numbers Student then adjusts the answer to compensate 	23 + 48 23 + (48 + 2) 23 + 50 = 73 73 - 2 = 71
Compensation	 Student manipulates the numbers to make them easier to add Student removes a specific amount from one addend and gives that exact amount to the other addend 	8+6 8-1=7 6+1=7 7+7=14
Breaking Each Number into its Place Value	 Strategy used as soon as students understand place value Student breaks each addend into its place value (expanded notations) and like place value amounts are combined Student works left to right to maintain the magnitude of the numbers 	$ \begin{array}{r} 24 + 38 \\ \hline (30 + 4) + (30 + 8) \\ 20 + 30 = 50 \\ \hline 4 + 8 = 12 \\ \hline 50 + 12 = 62 \end{array} $
Adding up in Chunks	 Follows place value strategy Student keeps one addend whole and adds the second addend in easy to use chunks More efficient than place value strategy because student is only breaking apart one addend 	$ \frac{45 + 28}{45 + (20 + 8)} \\ 45 + 20 = 65 \\ \hline 65 + 8 = 73 $

	Subtraction Strategies	
<u>Name</u>	<u>Clarification</u>	<u>Sample</u>
Adding up	 Student adds up from the number being subtracted to the whole The larger the jumps, the more efficient the strategy Student uses knowledge of basic facts, doubles, making ten, and counting on 	$ \frac{14-7}{78,9,10,11,12,13,14} (+1 \text{ each jump}) $ $ \frac{14-7}{78,9,10,11} (+1 \text{ each jump}) $ $ \frac{14-7}{78,9,10,11} (+1 \text{ each jump}) $ $ \frac{14-7}{78,9,10,11} (+1 \text{ each jump}) $ $ \frac{14-7}{78,9,10} (+1 \text{ each jump}) $ $\frac{14-7}{78,9,10} (+1 \text{ each jump}) $ \frac
Counting Back	 Strategy used by students who primarily view subtraction as taking away Student starts with the whole and removes the subtracting in parts Student needs the ability to decompose numbers in east to remove parts 	$ \frac{65 - 32}{65 - (10 + 10 + 10 + 2)} $ $ \frac{65, 55, 45, 35, 33}{65 - (30 + 2)} $ $ \frac{65 - 30 = 35}{35 - 2 = 33} $
<u>Place Value</u>	 Student breaks each number into its place value (expanded notation) Student groups like place values and subtracts 	$\frac{999 - 345}{(900 + 90 + 9) - (300 + 40 + 5)}$ $\frac{900 - 300 = 600}{90 - 40 = 50}$ $\frac{9 - 5 = 4}{600 + 50 + 4 = 654}$
Keeping a Constant Difference	 Student understands that adding or subtracting the same amount from both numbers maintains the distance between the numbers Student manipulates the numbers to create friendlier numbers 	$ \begin{array}{r} $
Adjusting the Create and Easier Number	 Strategy requires students to adjust only one of the numbers in a subtraction problem Student chooses a number to adjust, subtracts, then adjusts the final answer to compensate Students must understand part/whole relationships to reason through this strategy 	$\frac{123 - 59}{59 + 1 = 60}$ $\frac{123 - 60 = 63}{1 \text{ added 1 to make an easier}}$ $\frac{63 + 1 = 64}{1 \text{ have to add 1 to my final answer}}$ $\frac{63 + 1}{1 + 1}$

Common Multiplication and Division Situations

	<u>Unknown Product</u>	Group Size Unknown	Number of Groups Unknown
	<u>3 X 6 = ?</u>	(How many in each group)	(How many groups?)
	There are 3 bags with 6 plums in each	If 18 plums are shared equally into 3	If 18 plums are to be packed 6
	bag. How many plums are there in	bags, then how many plums will be	to a bag, then how many bags
	all?	in each bag?	are needed?
<u>Equal</u>	Measurement example: You need 3	Measurement example: You have	Measurement example: You
<u> </u>	lengths of string, each 6 inches long.	18 inches of string, which you will	have 18 inches of string, which
Groups	How much string will you need	cut into 3 equal pieces. How long	you will cut into pieces that are
	altogether?	will each piece of string be?	6 inches long. How many pieces
			of string will you have?
	There are 3 rows of apples with 6	If 18 apples are arranged into 3	If 18 apples are arranged into
	apples in each row. How many apples	equal rows, how may apples will be	equal rows of 6 apples, how
Arrays,	are there?	in each row?	many rows will there be?
	Area example: What is the area of a	Area example: A rectangle has area	Area example: A rectangle has
<u>Area</u>	3 cm by 6cm rectangle?	18 square centimeters. If one side	area 18 square centimeters. If
		is 3 cm long, how long is a side next	one side is 6cm long, how long is
		to it?	a side next to it?
	A blue hat costs \$6. A red hat cost 3	A red hat costs \$18 and that is 3	A red hat costs \$18 and a blue
	times as much as the blue hat. How	times as much as a blue hat costs.	hat costs \$6. How many times
	much does the red hat cost?	How much does the blue bat cost?	as much does the red hat cost as
Compare	Measurement example: A rubber	Measurement example: A rubber	the blue hat?
Compare	band is 6 cm long. How long will the	band is stretched to be 18 cm long	Measurement example: A
	rubber band be when it is stretched	and that is 3 times as long as it was	rubber band was 6 cm long at
	to be 3 times as long?	at first. How long was the rubber	first. Now it is stretched to be
		band at first?	18 cm long. How many times as
			long is the rubber band now as
			it was at first?
<u>General</u>	<u>a x b = ?</u>	<u>a x ? = p and p ÷ a = ?</u>	$? x b = p \text{ and } p \div b = ?$

	Multiplication Strategies	
<u>Name</u>	<u>Clarification</u>	Student Work Sample
Repeated Addition/Skip Counting	 Beginning strategy for students who are just learning multiplication Connection to an array model provides an essential visual model 	$ \frac{6 \times 15}{15+15+15+15+15+15+15=90} $ $ 2 \times 15 = 30 $ $ 2 \times 15 = 30 $ $ 2 \times 15 = 30 $ $ 30 + 30 + 30 = 90 $ 15
Friendly Numbers/Landmark Numbers	Students who are comfortable multiplying by multiples of 10	9×15 Add 1 group of 15 $10 \times 15 = 150$ We must now take off 1 group of 15. $150 - 15 = 135$
Partial Products	 strategy based on the distributive property and is the precursor for our standard U.S. algorithm student must understand that the factors in a multiplication problem can be broken into addends student can then u se friendlier numbers to solve more difficult problems 	$ \begin{array}{r} $
Breaking Factors into Smaller Factors	 Strategy relies on students' understand of breaking factors into smaller factors Associate property 	$ \frac{12 \times 25}{(3 \times 4) \times 25} \\ \underline{3 \times (4 \times 25)} \\ (4 \times 25) + (4 \times 25) + (4 \times 25) = 300 $
<u>Doubling and</u> <u>Halving</u>	 Used by students who have an understanding of the concept of arrays with different dimensions but the same area Student can double and halve numbers with ease Student doubles one factor and halves the other factor 	$ \frac{8 \times 25}{8 \div 2 = 4} \\ \underline{25 \times 2 = 50} \\ 4 \times 50 = 200 $

	Division Strategies	
<u>Name</u>	<u>Clarification</u>	Student Work Sample
Repeated Subtraction/Sharing	 Early strategy students use when they are developing multiplicative reasoning Repeated subtraction is one of the least efficient division strategies Presents opportunities to make connections to multiplication 	$ 30 \div 5 30 - 5 = 25 25 - 5 = 20 20 = 5 = 15 15 - 5 = 10 10 - 5 = 5 5 - 5 = 0 1 took out 6 groups of 5 30 ÷ 5 = 6$
Multiplying Up	 Strategy is a natural progression from repeated subtraction Student uses strength in multiplication to multiply up to reach the dividend Students relying on smaller factors and multiples will benefit from discussions related to choosing more efficient factors 	$ 384 \div 16 10 \times 16 = 160 384 - 160 = 224 10 \times 16 = 160 224 - 160 = 64 2 \times 16 = 32 64 - 32 = 32 2 \times 16 = 32 32 - 32 = 0 10 + 10 + 2 + 2 = 24 $
Partial Quotients	 Maintains place value Allows students to work their way toward the quotient by using friendly numbers such as ten, five, and two As the student chooses larger numbers, the strategy becomes more efficient 	384 ÷ 16 16) 384 -160 224 -160 64 -32 32 -32 0
Proportional Reasoning	 Students who have a strong understand of factors, multiples, and fractional reasoning Students' experiences with doubling and halving to solve multiplication problems can launch an investigation leading to the idea that you can divide the dividend and the divisor by the same number to create a friendlier problem 	$ \begin{array}{r} $

Problem Solving Strategy Focus

By Grade Level

Grade Level	<u>Strategies</u>
<u>Kindergarten</u>	Use Objects
First	Review Previous Grades
	Draw a Picture
	Use a Number Sentence
Second	Review Previous Grades
	Find a Pattern
	Make a Table
Third	Review Previous Grades
	Work Backwards
	Make It Simpler
Fourth	Review Previous Grades
	Make an Organized List
	Guess and Check
<u>Fifth</u>	Review Previous Grades
	Use Logical Reasoning
Sixth:	Students should know all strategies that will be used all year.

Depth of Knowledge (DOK) Flowchart for Questions

Is there a right or wrong answer?

Yes

Are students recalling something they've learned before?

Yes

DOK 1

Not exactly

Is it a skill or concept? (EG cause/effect, inferring, summarizing)

Yes

DOK 2 Not exactly

Look at verbs on DOK wheel No

Is this a question or task that is new/fairly new to students?

Yes

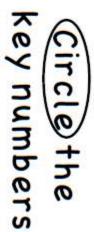
DOK 3 No, they've been investigating it for an extended time (EG PBL)

DOK 4



Based on. Webb's Depth of Knowledge.
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Underline the question



Box any math action words



Evaluate what steps do I take?



Solve and check

Does the answer make sense?

How can I check?

Weeks 1-9 Pacing Guide

Week 1	2.NS.1: Count by ones, twos, fives, tens, and hundreds up to at least 1,000 from any given number.
	2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
Week 2	2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.
	2.CA.5: 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 groups.
Week 3	2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.
	2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
Week 4	2.NS.3: Plot and compare whole numbers up to 1,000 on a number line.
	2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.
	2.NS.5: Determine whether a group of objects (up to 20) has an odd or even number of members (e.g., by placing that number of objects in
	two groups of the same size and recognizing that for even numbers no object will be left over and for odd numbers one object will be left
	over, or by pairing objects or counting them by 2s).
Week 5	2.NS.2: Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show
	equivalent forms of whole numbers up to 1,000.
	2.NS.6: Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7
	hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens — called a "hundred." Understand that 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).
Week 6	2.NS.2: Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 1,000.
	2.NS.6: Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7
	hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens — called a "hundred." Understand that 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).
Week 7	2.NS.3: Plot and compare whole numbers up to 1,000 on a number line.
Week 8	2.NS.7: Use place value understanding to compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits,
	using >, =, and < symbols to record the results of comparisons.
Week 9	2.NS.7: Use place value understanding to compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits,
	using >, =, and < symbols to record the results of comparisons.
	2.CA.1: Add and subtract fluently within 100.

Weeks 10-18 Pacing Guide

Week 10	2.CA.1: Add and subtract fluently within 100.
	2.CA.6: Show that the order in which two numbers are added (commutative property) and how the numbers are grouped in addition
	(associative property) will not change the sum. These properties can be used to show that numbers can be added in any order.
Week 11	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 12	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 13	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 14	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 15	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 16	2.CA.1: Add and subtract fluently within 100
	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking
	apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for
	the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
Week 17	2.CA.1: Add and subtract fluently within 100
	2.DA.1: Draw a picture graph (with single-unit scale) and a bar graph (with single-unit scale) to represent a data set with up to four choices (What
	is your favorite color? red, blue, yellow, green). Solve simple put-together, take-apart, and compare problems using information presented in the
	graphs.
Week 18	2.CA.1: Add and subtract fluently within 100
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Weeks 19-27 Pacing Guide

Week 19	2.CA.1: Add and subtract fluently within 100.
	2.CA.4: Add and subtract within 1000, using models or drawings and strategies based on place value, properties of operations, and/or the
	relationship between addition and subtraction; describe the strategy and explain the reasoning used. Understand that in adding or
	subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and that sometimes it is
	necessary to compose or decompose tens or hundreds.
	2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
Week 20	2.CA.1: Add and subtract fluently within 100.
	2.G.1: Identify, describe, and classify two- and three-dimensional shapes (triangle, square, rectangle, cube, right rectangular prism)
	according to the number and shape of faces and the number of sides and/or vertices. Draw two-dimensional shapes.
Week 21	2.CA.1: Add and subtract fluently within 100.
	2.G.2: Create squares, rectangles, triangles, cubes, and right rectangular prisms using appropriate materials.
	2.G.3: Investigate and predict the result of composing and decomposing two- and three-dimensional shapes.
Week 22	2.CA.1: Add and subtract fluently within 100.
	2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third
	of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the
	same shape.
Week 23	2.CA.1: Add and subtract fluently within 100.
	2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third
	of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the
	same shape.
Week 24	2.CA.1: Add and subtract fluently within 100.
	2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third
	of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the
	same shape.
Week 25	2.CA.1: Add and subtract fluently within 100.
	2.M.5: Tell and write time to the nearest five minutes from analog clocks, using a.m. and p.m. Solve real-world problems involving addition
	and subtraction of time intervals on the hour or half hour.
Week 26	2.CA.1: Add and subtract fluently within 100.
	2.M.6: Describe relationships of time, including: seconds in a minute; minutes in an hour; hours in a day; days in a week; and days, weeks,
	and months in a year.

Week 27 2.CA.1: Add and subtract fluently within 100.	
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Weeks 28-36 Pacing Guide

Week 28	2.CA.1: Add and subtract fluently within 100.
	2.M.2: Estimate and measure the length of an object by selecting and using appropriate tools, such as rulers, yardsticks, meter sticks, and
	measuring tapes to the nearest inch, foot, yard, centimeter and meter.
Week 29	2.CA.1: Add and subtract fluently within 100.
	2.M.3: Understand that the length of an object does not change regardless of the units used. 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.
Week 30	2.CA.1: Add and subtract fluently within 100.
	2.M.4: Estimate and measure volume (capacity) using cups and pints.
Week 31	2.CA.1: Add and subtract fluently within 100.
	3.NS.1: Read and write whole numbers up to 10,000. Use words, models, standard form and expanded form to represent and show
	equivalent forms of whole numbers up to 10,000.
Week 32	2.CA.1: Add and subtract fluently within 100.
17001102	3.NS.2: Compare two whole numbers up to 10,000 using >, =, and < symbols.
Week 33	2.CA.1: Add and subtract fluently within 100.
	3.NS.9: Use place value understanding to round 2- and 3-digit whole numbers to the nearest 10 or 100.
Week 34	2.CA.1: Add and subtract fluently within 100.
Treen or	3.C.1: Add and subtract whole numbers fluently within 1000.
Week 35	2.CA.1: Add and subtract fluently within 100.
Treek 55	3.AT.1: Solve real-world problems involving addition and subtraction of whole numbers within 1000 (e.g., by using drawings and
	equations with a symbol for the unknown number to represent the problem).
Week 36	2.CA.1: Add and subtract fluently within 100.
TTCCK 30	3.AT.4: Interpret a multiplication equation as equal groups (e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects
	each). Represent verbal statements of equal groups as multiplication equations.

Weeks 1-3:

Problem Solving: Should be embedded within daily instruction:							
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)							
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :				
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,				
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts				
	construct, summarize, interpret,	conclusions, assess					
	estimate						

Standards for 3 weeks:

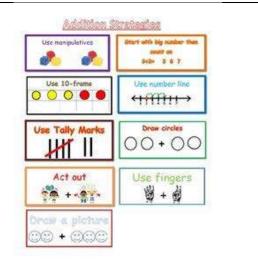
Grade Level Correlation

- **2.NS.1:** Count by ones, twos, fives, tens, and hundreds up to at least 1,000 from any given number.
- **2.CA.7:** Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
- **2.NS.4:** Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.
- **2.CA.5:** 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 groups.

- **1.NS.1:** Count to at least 120 by ones, fives, and tens from any given number. In this range, read and write numerals and represent a number of objects with a written numeral.
- **1.NS.3:** Match the ordinal numbers first, second, third, etc., with an ordered set up to 10 items.
- **1.CA.6:** Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false (e.g., Which of the following equations are true and which are false? 6 = 6, 7 = 8 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2).

Week 1:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.NS.1: Count by ones, twos, fives, tens, and hundreds up to at least 1,000 from any given nu	ımber.	
2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and	subtraction within 1000. (**subtraction	will be week 16)
Students will: Count forward and backward by ones from any given number up to 999 Identify missing numbers in a sequence on a number line, hundred chart, tape measure, etc. Count forward and backward by fives, tens, and hundreds from any give number up to 999.	AIMS: Internet Resources:	Addends Addition Count Count backward Count forward Count on/count back Extend Fives Hundred chart Hundreds Number line Ones
	https://www.brainpop.com/games/battleshipnumberline/	Patterns Plus



http://mathsnacks.com/pearl_diver_gam e_en.html http://www.topmarks.co.uk/Flash.aspx?f =NumberLinev5 http://www.sheppardsoftware.com/mat hgames/placevalue/BPOrder1000.htm https://campus.mangahigh.com/enus/px/850/0/0 Rule
Subtraction
Sum
Tens
Thousand
Twos

Strategy: Use Patterns

Week 2:

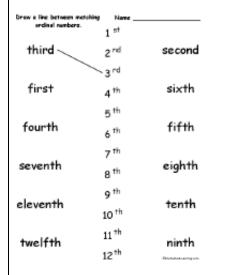
Benchmarks to be taught:	Activities	Vocabulary
Standards:		

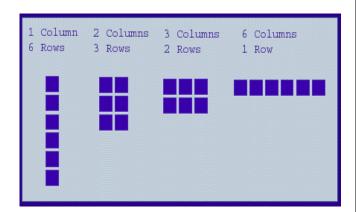
2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.

2.CA.5: 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 groups.

Students will:

- Match ordinal numbers
- **Use** addition to find total of object
- Understand rectangular arrays
- **Understand** difference of rows and columns
- Write an equation
- Express total sum as equal groups





Strategy: Use objects

AIMS:

- Accounting for Butterflies
- Treasure Trove

Addition

Array

Column

Equal

Equation

Express Groups

Match

Order

Ordered set

Ordinal numbers

Plus

Rectangle

Row Sum

Internet Resources:

http://www.multiplication.com/games/addition-games

http://mrnussbaum.com/grade_2_stand
ardsarrays/

Week 3:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		

2.NS.4: Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.

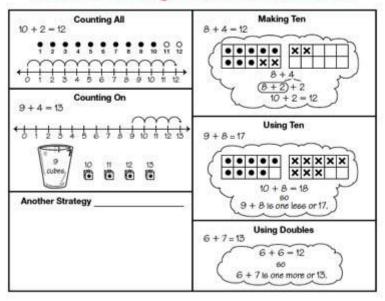
2.CA.7: Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.

Students will:

- Match ordinal numbers
- Order items up to 30
- Create number patterns for addition
- Extend number patterns for addition
- Express number pattern for addition

(subtraction will be week 19)

Addition Strategies Menu for the Facts



AIMS:

Addition Order

Ordinal number

Pattern Plus

Rule

<mark>Sum</mark>

Internet Resources:

http://www.sheppardsoftware.com/mat hgames/earlymath/fruit_shoot_NumberL ine.htm

Strategy: Patterns

Weeks 4-6:

Problem Solving: Should be embedded within daily instruction:

Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)								
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :					
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,					
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts					
	construct, summarize, interpret,	conclusions, assess						
	estimate							

Standards for 3 weeks:

- **2.NS.3:** Plot and compare whole numbers up to 1,000 on a number line.
- **2.NS.4:** Match the ordinal numbers first, second, third, etc., with an ordered set up to 30 items.
- **2.NS.5:** Determine whether a group of objects (up to 20) has an odd or even number of members (e.g., by placing that number of objects in two groups of the same size and recognizing that for even numbers no object will be left over and for odd numbers one object will be left over, or by pairing objects or counting them by 2s).
- **2.NS.6:** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens called a "hundred." Understand that 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).

Grade Level Correlation

- **1.NS.4:** Use place value understanding to compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.
- **1.NS.3:** Match the ordinal numbers first, second, third, etc., with an ordered set up to 10 items.
- **1.NS.2:** Understand that 10 can be thought of as a group of ten ones called a "ten." Understand that the numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. Understand that the numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

Week 4:

Benchmarks to be taught:

Activities

Vocabulary

Standards:

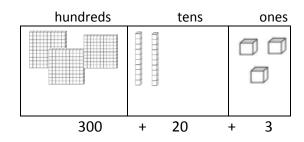
2.CA.1: Add and subtract fluently within 100.

2.NS.2: Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 1,000.

2.NS.6: Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens — called a "hundred." Understand that 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).

Students will:

- **Read** numbers using base-ten numerals (standard form) and number names (word form) through 999
- **Write** numbers using base-ten numerals (standard form) and number names (word form) through 999
- **Model** a number up to 999 in expanded form using appropriate tolls (place value blocks, other concrete materials, or pictorial representations).
- Write a number up to 999 in expanded form.



AIMS:

• Base-ic Buildings

• Base Place: The Pluses

• Base Place: The Minuses

Digit

Equals

Expanded form

Group

Hundred

Models

Ones

Place value

Read

Standard form

Tens

Whole number

Write

Internet Resources:

http://www.abcya.com/base_ten_fun.ht
m

http://www.abcya.com/base_ten_bingo.

http://www.hoodamath.com/mobile/games/basetenblocks.html

http://www.sheppardsoftware.com/mat hgames/placevalue/FS place value.htm

Strategy: Use a picture Use objects	

Week 6:

Benchmarks to be taught: Activities Vocabulary
--

Standards:

- **2.CA.1:** Add and subtract fluently within 100.
- **2.NS.2:** Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 1,000.
- **2.NS.6:** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens called a "hundred." Understand that 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).

Students will:

- **Identify** the digit of a number to 999 that corresponds with a given place value with concrete materials and pictorial representations
- Represent the amount of a digit in a multi-digit numeral by its position within the number of models, words, and numerals.

Example: What is the amount of the underlined digit in 654? Answer: 600 or 6 hundreds What is the amount of the underlined digit in 301? Answer: 0 or 0 tens

- Represent a hundred as ten groups of ten
- Create bundles of 100s with or without leftovers using base ten blocks, towers, or ten frames
- **Express** a number up to 999 using place value in multiple ways
 - \rightarrow 245 can be expressed in the following ways:
 - 1) 2 hundreds, 4 tens, 5 ones
 - 2) 2 hundreds, 43 ones
 - 3) 24 tens, 3 ones
 - 4) 243 ones
 - → 706 can be modeled with base ten blocks in the following ways:

7 hundreds and 6 ones

Strategy: Use objects

AIMS:

Base-ic Buildings

Internet Resources:

hird 3rd grade.htm

Base Place: The Pluses

Base Place: The Minuses

http://www.internet4classrooms.co

m/skill builders/place value math t

Digit

Equivalent Equivalent form

Expanded form

Group Hundred Models

Ones

Place value

Read

Represent

Standard form

Tens

Word form

Write

Weeks 7-9:

P	Problem Solving: Should be embedded within daily instruction:							
	Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
	PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)								
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :					
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,					
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts					
	construct, summarize, interpret,	conclusions, assess						
	estimate							

Standards for 3 weeks: **Grade Level Correlation 2.NS.3:** Plot and compare whole numbers up to 1,000 on a number line. **1.NS.4:** Use place value understanding to compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of **2.NS.7:** Use place value understanding to compare two three-digit numbers comparisons with the symbols >, =, and <. based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a **2.CA.1:** Add and subtract fluently within 100. ten (e.g., 13 - 4 = 13 - 3 - 1 = 10 - 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 - 8 =4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13). Understand the role of 0 in addition and subtraction.

Week 7:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.CA.1: Add and subtract fluently within 100.		

2.NS.3: Plot and compare whole numbers up to 1,000 on a number line.

Students will:

- Use a number line
- **Plot** whole numbers up to 1,000 using a number line
- Compare whole numbers using a number line

AIMS:

Compare
Equals to
Greater than
Less than
Number line
Plot
Symbol

Internet Resources:

http://www.multiplication.com/games/addition-games http://www.multiplication.com/games/subtraction-games http://www.abcya.com/comparing_number_values.htm (whole numbers, medium)

 $\frac{https://www.sheppardsoftware.com/mathgames/menus/comp}{aringnumbers.htm}$

Strategy: draw a picture use objects

Week 8:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.CA.1: Add and subtract fluently within 100.		

2.NS.7: Use place value understanding to compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. **Students will:** (focus on the top 4 bullets) AIMS: Compare Comparison **Construct** and communicate a comparison of two numbers up to 999 using place value blocks. Dealing with Digits Equal to Explain a process for determining whether a three-digit number is greater than, less than, or Greater than equal to another three-digit number Hundreds Compare two digits up to 999 using <, >, = Less than **Understand** the value of the hundreds, tens, and ones place Ones Communication/explanation to the problem below: Place value Record Results 452 ____ 455 **Symbol** Tens Three-digit **Internet Resources:** 452 has 4 hundreds 5 tens and 2 ones. https://www.sheppardsoftware.com/ma Two-digit 455 has 4 hundreds 5 tens and 5 ones. thgames/menus/comparingnumbers.htm They have the same number of hundreds and the same number of tens, but 455 has 5 ones and 452 only has 2 ones. 452 is less than 455

Strategy: Make a table

Week 9:

Benchmarks to be taught:

Standards:

2.CA.1: Add and subtract fluently within 100.

2.NS.7: Use place value understanding to compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.

2.CA.1: Add and subtract fluently within 100.

Students will: (Focus on the explanation/communication portion)

- **Construct** and communicate a comparison of two numbers up to 999 using place value blocks.
- **Explain** a process for determining whether a three-digit number is greater than, less than, or equal to another three-digit number
- Compare two digits up to 999 using <, >, =
- Understand the value of the hundreds, tens, and ones place
- **Communication**/explanation to the problem below:

452 ____ 455

452 has 4 hundreds 5 tens and 2 ones. 455 has 4 hundreds 5 tens and 5 ones. They have the same number of hundreds and the same number of tens, but 455 has 5 ones and 452 only has 2 ones. 452 is less than 455 AIMS:

• Dealing with Digits

Internet Resources:

Base Place: The Pluses

• Base Place: The Minuses

Composing with Codes

https://www.sheppardsoftware.com/ma

thgames/menus/comparingnumbers.htm

Compare

Equals to

Fluently

Greater than

Greatest

Hundreds

Least

Less than Numbers

Ones

Place value

Record

Results

Symbol

Tens

Three-digit

Two-digit

Strategy: Make a table

Weeks 10-12:

Problem Solving: Should be embedded within daily instruction:							
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)						
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :			
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,			
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts			
	construct, summarize, interpret,	conclusions, assess				
	estimate					

Standards for 3 weeks:

- **2.CA.1:** Add and subtract fluently within 100.
- **2.CA.6:** Show that the order in which two numbers are added (commutative property) and how the numbers are grouped in addition (associative property) will not change the sum. These properties can be used to show that numbers can be added in any order.
- **2.CA.2:** Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

Grade Level correlation

- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8+6=8+2+4=10+4=14); decomposing a number leading to a ten (e.g., 13-4=13-3-1=10-1=9); using the relationship between addition and subtraction (e.g., knowing that 8+4=12, one knows 12-8=4); and creating equivalent but easier or known sums (e.g., adding 6+7 by creating the known equivalent 6+6+1=12+1=13). Understand the role of 0 in addition and subtraction.
- **1.CA.6:** Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false (e.g., Which of the following equations are true and which are false? 6 = 6, 7 = 8 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2).
- **1.CA.2:** Solve real-world problems involving addition and subtraction within 20 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem).

Spiral:

2.NS.6: Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand that 100 can be thought of as a group of ten tens — called a "hundred." Understand that 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).

<u>Week 10:</u>

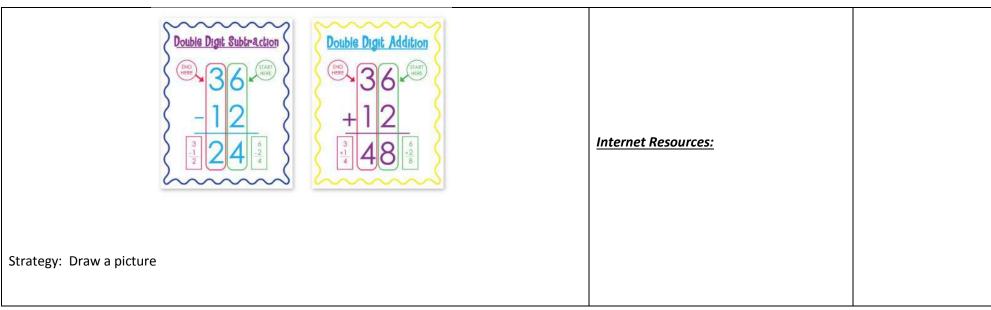
Strategies: Use objects

Benchmarks to be taught:	Activities	Vocabulary
 Standards: 2.CA.1: Add and subtract fluently within 100. 2.CA.6: Show that the order in which two numbers are added (commutative property) and h will not change the sum. These properties can be used to show that numbers can be added in the sum. 		(associative property)
Students will: Commutative Property: • Understand how numbers are added will not change the sum • Show how numbers are added together without changing the sum • Understand how numbers are grouped and not change sum Commutative Property 2+3 = 3+2 Changing the order does not change the result!	 Saluting Subtraction and Addition Make It Even Blockout! Book Base Place: The Pluses Base Place: The Minuses Composing with Codes 	Addend Associative property Commutative property Describe Fluently Grouped Order Patterns Recognize Sum
 Associative Property: Understand how numbers are added will not change the sum Show how numbers are added together without changing the sum Understand how numbers are grouped and not change the sum (Associative Property of Addition) (2+3)+4 = 2+(3+4) Do first 5+4=9 is the same as 2+7=9	Internet Resources:	

Find Patterns	
Waste 11. (Cub traction will be used 12)	

Week 11: (Subtraction will be week 13)

Benchmarks to be taught:	Activities	Vocabulary
Standards: 2.CA.1: Add and subtract fluently within 100. 2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using doto represent the problem). Use estimation to decide whether answers are reasonable in additional contents.	rawings and equations with a symbol fo	
(2.CA.2 will be broken into sections) Students will: (Focus on addition without grouping) • Add within 100 using adding to • Add within 100 by putting together 12 +3 15 • Use estimation to decide if answers are reasonable • Communicate thinking process	 AIMS: Base Place: The Pluses Base Place: The Minuses Composing with Codes Saluting Subtractions and Addition Make it Even Blockout! Book Pond Problems 	Adding to Complete Demonstrate Drawings Illustrate Pictures Putting together Solve



Week 12:

Standards:

2.CA.1: Add and subtract fluently within 100.

2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

(2.CA.2 will be broken into sections) AIMS: Compare Students will: Complete **Compose** Saluting Addition and Subtraction **Estimate Use** a symbol for unknown numbers Make it Even **Solve** equation for unknown number Blockout! Book Solve **Value Communicate** thinking process Pond Problems Part-Whole Model **Addition & Subtraction** Part + Part = Whole **Internet Resources:** Whole - Part = Part Strategy: Draw a picture

Weeks 13-15:

Problem Solving: Should be embedded within daily instruction:

Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)						
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :			
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,			
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts			
	construct, summarize, interpret,	conclusions, assess				
	estimate					

Standards for 3 weeks:

- **2.CA.1:** Add and subtract fluently within 100.
- **2.CA.2:** Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

Grade Level Correlation

- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8+6=8+2+4=10+4=14); decomposing a number leading to a ten (e.g., 13-4=13-3-1=10-1=9); using the relationship between addition and subtraction (e.g., knowing that 8+4=12, one knows 12-8=4); and creating equivalent but easier or known sums (e.g., adding 6+7 by creating the known equivalent 6+6+1=12+1=13). Understand the role of 0 in addition and subtraction. **1.CA.2:** Solve real-world problems involving addition and subtraction within 20 in situations of adding to taking from putting together taking apart, and comparing with unknowns in all parts.
- **1.CA.2:** Solve real-world problems involving addition and subtraction within 20 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem).

Spiral: (addition)

2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

Week 13: (Begin Subtraction...timed tests will begin week 18 for subtraction)

Benchmarks to be taught:

Activities

Vocabulary

Standards:

2.CA.1: Add and subtract fluently within 100.

2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

(2.CA.2 will be broken into sections)

Students will:

- **Subtract** numbers by taking apart
- Subtract numbers by taking from

Part-Part-Whole This is how! see the number 5 This is how! see the number for the number how and the number of the number how and the number of the numbe

AIMS:

- Saluting Addition and Subtraction
- Make it Even
- Blockout! Book
- Pond Problems

Decompose

Difference Equals

Subtraction

Taking apart

Taking from

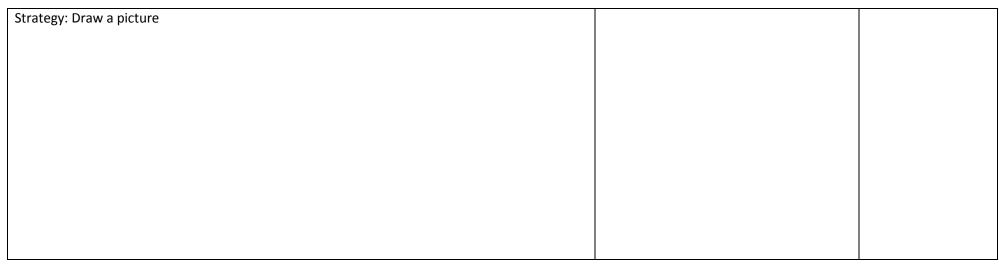
Internet Resources:

Strategy: use objects

Draw a picture

Week 14:

andards: .CA.2: Solve real-world problems involving addition and subtraction withi	n 100 in situations of adding to, taking from, putting toge	ther, taking apart.
omparing, with unknowns in all parts of the addition or subtraction problems.		
mber to represent the problem). Use estimation to decide whether answer		
CA.1: Add and subtract fluently within 100.		
.CA.2 is broken into sections)		
	AIMS:	Compare
dents will:		Estimate
. Has actionating when achine much large	Saluting Addition and Subtractio	
Use estimation when solving problemsCompare numbers	Make it EvenBlockout! Book	Subtraction
Communicate effectively how to solve the problem	Biockout: Book Pond Problems	
cus:	T ond Troblems	
 imation/rounding		
	Internet Resources:	



Week 15:

Benchmarks to be taught: Activities Vocabulary

Standards:

2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

2.CA.1: Add and subtract fluently within 100.

(2.CA.2 will be done into sections)

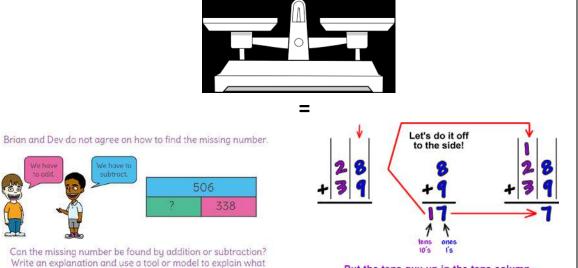
Students will:

- **Understand** that the equal sign "is the same value" (1st grade)
- Use a symbol for an unknown number
- **Solve** an equation using a symbol to represent the unknown number
- **Solve** an equation with an unknown number in any position
- **Double** digit addition with carrying

you found out.

Focus:

Addition with Carrying



AIMS:

- Saluting Addition and Subtraction
- Make it Even
- Blockout! Book
- Pond Problems

Equation Symbol

Unknown number

Internet Resources:

Weeks 16-18:

Strategy: Guess and Check

Problem Solving	Problem Solving: Should be embedded within daily instruction:						
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.

Put the tens guy up in the tens column...

Put the ones guy in the ones answer spot.

PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)

Level 1:

identify, list, label, illustrate, measure, state, tell, use, match

Level 2:

graph, classify, cause/effect, estimate, compare, infer, construct, summarize, interpret, estimate

Level 3:

Revise, critique, construct, investigate, cite evidence, conclusions, assess

Level 4:

Design, connect, synthesize, critique, analyze, create, prove, apply concepts

Standards for 3 weeks:

- 2.CA.1: Add and subtract fluently within 100.
- **2.CA.2:** Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
- **2.DA.1:** Draw a picture graph (with single-unit scale) and a bar graph (with single-unit scale) to represent a data set with up to four choices (What is your favorite color? Red, blue, yellow, green). Solve simple puttogether, take-apart, and compare problems using information presented in the graphs.

Grade Level Correlation

- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a ten (e.g., 13 4 = 13 3 1 = 10 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13). Understand the role of 0 in addition and subtraction.
- **1.CA.2:** Solve real-world problems involving addition and subtraction within 20 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem).
- **1.DA.1:** Organize and interpret data with up to three choices (What is your favorite fruit? apples, bananas, oranges); ask and answer questions about the total number of data points, how many in each choice, and how many more or less in one choice compared to another.

Spiral:

2.CA.2: Addition and subtraction

Week 16:

Activities

Standards:

2.CA.1: Add and subtract fluently within 100.

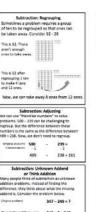
2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.

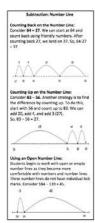
Students will:

Continue to add and subtract with and without carrying/borrowing

Benchmarks to be taught:

- **Solve** real-world problems involving addition
- Solve real-world problems using subtraction
- Solve real-world problems using an unknown number
- **Use** estimation to decide if answer is reasonable
- Communicate process of solving the real-world problem
- Know when to use addition
- Know when to use subtraction
- Apply methods of addition and subtraction





AIMS:

- Saluting Addition and Subtraction
- Make it Even
- Blockout! Book
- Pond Problems

Equals

Equation

Reasonable

Represent

Solve

Symbol

Unknown number Variable

Vocabulary

Internet Resources:

http://www.mathplayground.com/wordproblems.html

http://www.mathplayground.com/gsmb
egin.html

http://www.abcya.com/first grade word
 problems add subtract.htm

http://mrnussbaum.com/wordproblems/

Strategy: Draw a picture

Benchmarks to be taught: Activities Vocabulary

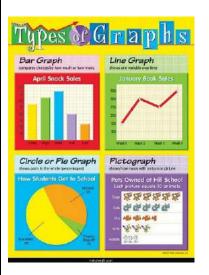
Standards:

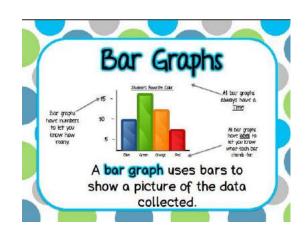
2.CA.1: Add and subtract fluently within 100.

2.DA.1: Draw a picture graph (with single-unit scale) and a bar graph (with single-unit scale) to represent a data set with up to four choices (What is your favorite color? Red, blue, yellow, green). Solve simple put-together, take-apart, and compare problems using information presented in the graphs.

Students will:

- Identify the parts of a picture graph (title, categories, category label, key, and data) and bar graph (title, scale, scale label, categories, category label, and data).
- **Interpret** and explain data on a given picture graph and bar graph to solve put together, take-apart, and compare problems.
- Create a picture graph and bar graph from a given set of data.
- Represent up to four categories of data.





AIMS:

• Tuber talk

Base Place: The Pluses

• Base Place: The Minuses

Composing with Codes

Saluting Subtraction and Addition

Blockout! book

Bar graph

Category Category label

Data

Data set

Explain

Graph Interpret

Key

Picture graph

Represent Scale Title

Internet Resources:

http://www.abcya.com/fuzz_bugs_graph ing.htm

http://www.topmarks.co.uk/mathsgames/5-7-years/data-handling

http://classroom.jc-

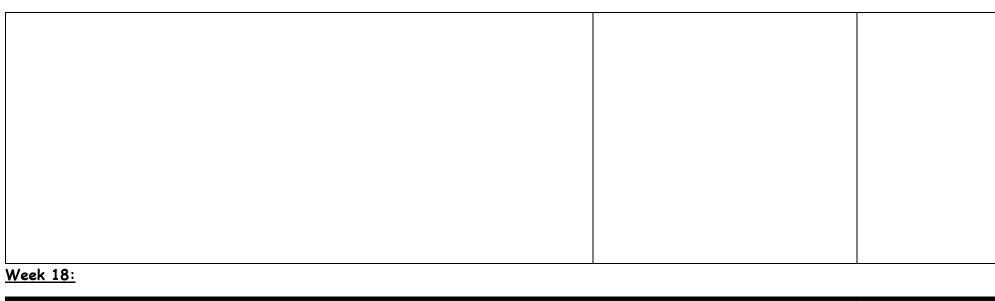
schools.net/basic/math-graph.html

http://www.softschools.com/math/data analysis/bar graph/activities/favourite

colors bar chart/

http://mrnussbaum.com/coolgraphing/

Strategy: Draw a picture



Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.CA.1: Add and subtract fluently within 100.		
Students will:		
This week will be review week.		
1. Which standards need to be covered again?		
2. Which standards do my students need more practice?		

Strategy:		
Weeks 19-21:		

Weeks 19-21:

Problem Solving: Should be embedded within daily instruction:								
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.	
PS.1	PS.2	others PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8	

DOK (Depth of Knowledge)						
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :			
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,			
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts			
	construct, summarize, interpret,	conclusions, assess				
	estimate					

Standards for 3 weeks:

Grade Level Correlation

- **2.CA.4:** Add and subtract within 1000, using models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; describe the strategy and explain the reasoning used. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and that sometimes it is necessary to compose or decompose tens or hundreds.
- **2.CA.7:** Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
- **2.CA.1:** Add and subtract fluently within 100.
- **2.G.1:** Identify, describe, and classify two- and three-dimensional shapes (triangle, square, rectangle, cube, right rectangular prism) according to the number and shape of faces and the number of sides and/or vertices. Draw two-dimensional shapes.
- **2.G.2:** Create squares, rectangles, triangles, cubes, and right rectangular prisms using appropriate materials.
- **2.G.3:** Investigate and predict the result of composing and decomposing two- and three-dimensional shapes.

- **1.CA.5:** Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; describe the strategy and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones, and that sometimes it is necessary to compose a ten.
- 1.CA.7: Create, extend, and give an appropriate rule for number patterns using addition within 100.
- **1.G.1:** Identify objects as two-dimensional or three-dimensional. Classify and sort two-dimensional and three-dimensional objects by shape, size, roundness and other attributes. Describe how two-dimensional shapes make up the faces of three-dimensional objects.
- **1.G.2:** Distinguish between defining attributes of two- and three-dimensional shapes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size). Create and draw two-dimensional shapes with defining attributes.
- **1.G.3:** Use two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape. [In grade 1, students do not need to learn formal names such as "right rectangular prism."]

Spiral:

2.NS.9: Using <, >, =.

Week 19: Begin subtraction timed tests

Benchmarks to be taught:

Activities

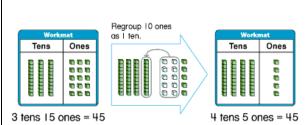
Vocabulary

Standards:

- **2.CA.4:** Add and subtract within 1000, using models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; describe the strategy and explain the reasoning used. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and that sometimes it is necessary to compose or decompose tens or hundreds.
- **2.CA.7:** Create, extend, and give an appropriate rule for number patterns using addition and subtraction within 1000.
- **2.CA.1:** Add and subtract fluently within 100.

Students will:

- Add within 1000 using models
- Add within 1000 using drawings
- Add within 1000 using various strategies based on place value
- Add within 1000 using properties of operations
- Understand the relationship between addition and subtraction
- **Describe** a strategy and explain reasoning used to solve the problem
- **Understand** adding/subtraction using place value (ones from ones, tens from tens, hundreds from hundreds





AIMS:

• Base Place: The Pluses

• Base Place: The Minuses

Saluting Subtraction and Addition

Blockout! book

Describe Drawings Explain Fact families Illustrate

Models

Operations Pattern

Place value

Reasoning

Relationship Represent

Rule

Strategies

Internet Resources:

http://nlvm.usu.edu/en/nav/frames asid 154 g 1 t 1.html?from=topic t 1.html http://nlvm.usu.edu/en/nav/frames asid 155 g 1 t 1.html?from=topic t 1.html

Strategy: Draw a picture

Week 20:

Benchmarks to be taught: Activities Vocabulary

Standards:

2.CA.1: Add and subtract fluently within 100.

2.G.1: Identify, describe, and classify two- and three-dimensional shapes (triangle, square, rectangle, cube, right rectangular prism) according to the number and shape of faces and the number of sides and/or vertices. Draw two-dimensional shapes.

Students will:

- identify two and three dimensional shapes by number of sides
- **describe** two and three dimensional shapes by number of faces
- classify two and three dimensional shapes by number of vertices
- **draw** two dimensional shapes

2-D Shapes	Picture	Number of sides	Number of faces	Number of
				vertices
Triangle		3	1	3
Square		4	1	4
Rectangle		4	1	4

3-D Shapes	Picture	Number of sides	Number of faces	Number of vertices
Cube		6	6	8
Prism		6	6	8

"Prisms have two opposite faces that are the same size and shape (congruent). All other faces, connecting these two opposite faces, are rectangles. In *rectangular prisms*, the two opposite faces are rectangles, so all six faces are rectangles. Most boxes are rectangular prisms. You can also call these shapes *rectangular solids*."

Polygon: many sides

Strategy: Use objects

AIMS:

- Saluting Subtraction and Addition
- Blockout! Book
- On Board with Shapes
- Shapes All Around Us

2-dimensional 3-dimensional

Classify

Cube

Describe

Draw

Edges

Faces

Identify

Illustrate

Polygon

Rectangle

Rectangular prism

Shape

Side

Solids

Square Triangle

Vertices/vertex

Internet Resources:

http://www.learnalberta.ca/content/mej hm/index.html?l=0&ID1=AB.MATH.JR.SH AP&ID2=AB.MATH.JR.SHAP.&lesson =html/object_interactives/shape_classifi cation/use_it.html

http://www.math-play.com/Geometry-

Math-Games.html

Week 21:

Benchmarks to be taught: Activities Vocabulary

Standards:

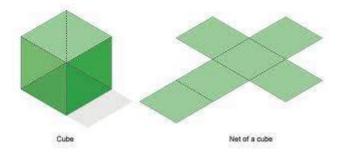
2.G.2: Create squares, rectangles, triangles, cubes, and right rectangular prisms using appropriate materials.

2.G.3: Investigate and predict the result of composing and decomposing two- and three-dimensional shapes.

2.CA.1: Add and subtract fluently within 100.

Students will:

- Create squares using appropriate materials
- **Create** rectangles using appropriate materials
- Create triangles using appropriate materials
- Create cubes using appropriate materials
- **Create** right rectangular prisms using appropriate materials
- Investigate result of composing and decomposing two and three dimensional shapes
- Predict the result of composing and decomposing two and three dimensional shapes



Strategy: Use objects

AIMS:

Base Place: The PlusesBase Place: The Minuses

• Composing with Cubes

2-Dimensional
3-Dimensional
Create
Cube
Investigate
Predict
Prism
Rectangles
Solid
Squares

Triangles

Internet Resources:

http://www2.learningtoday.com/player/sw f/Geometry 2DShapes L2 V2 T1a.swf http://www.turtlediary.com/game/compos e-shapes-using-one-square-fourtriangles.html http://www.turtlediary.com/game/tangra ms.html

Weeks 22-24:

Problem Solving: Should be embedded within daily instruction:

Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)						
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :			
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,			
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts			
	construct, summarize, interpret,	conclusions, assess				
	estimate					

Standards for 3 weeks:

- 2.CA.1: Add and subtract fluently within 100.
- **2.G.5:** Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the same shape.

Grade Level Correlation

- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8+6=8+2+4=10+4=14); decomposing a number leading to a ten (e.g., 13-4=13-3-1=10-1=9); using the relationship between addition and subtraction (e.g., knowing that 8+4=12, one knows 12-8=4); and creating equivalent but easier or known sums (e.g., adding 6+7 by creating the known equivalent 6+6+1=12+1=13). Understand the role of 0 in addition and subtraction.
- **1.G.4:** Partition circles and rectangles into two and four equal parts; describe the parts using the words halves, fourths, and quarters; and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of, the parts. Understand for partitioning circles and rectangles into two and four equal parts that decomposing into equal parts creates smaller parts.

Spiral:

Addition and subtraction

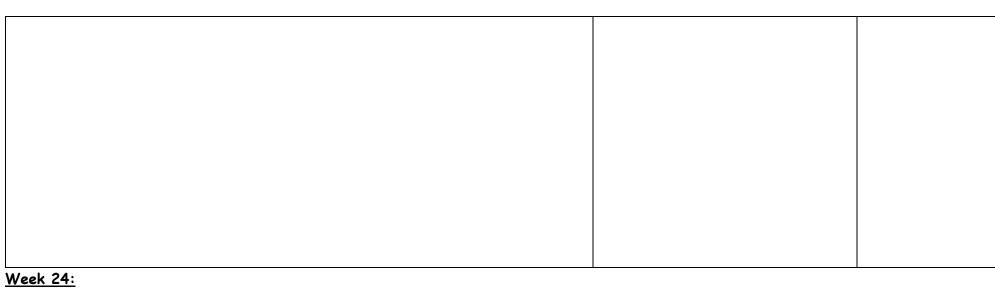
2.G.1: Identify, describe, and classify two- and three-dimensional shapes (triangle, square, rectangle, cube, right rectangular prism) according to the number and shape of faces and the number of sides and/or vertices. Draw two-dimensional shapes.

Week 23:

Benchmarks to be taught: Activities Vocabulary **Standards: 2.CA.1:** Add and subtract fluently within 100. 2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the shares using the words halves, thirds, half of, a third of, etc.; and describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of identical wholes need not have the same shape. **Students will:** AIMS: Circle **Partition** circles into two, three, or four equal shares Describe Fresh Baked Fractions **Fourths Partition** rectangles into two, three, or four equal shares Fourth of **Describe** the shares using words such as: halves, thirds, half of, a third of, etc Half of **Describe** the whole as two halves, three thirds, four fourths, etc **Halves Identical wholes** Identify **Partition** Rectangle Third of **Thirds Internet Resources:** Divide a rectangle in fourths: (at least ways) http://www.topmarks.co.uk/mathsgames/7-11-years/fractions-anddecimals http://www.sheppardsoftware.com/mat hgames/earlymath/fractions shoot.htm http://www.counton.org/games/mapfractions/spring/ (can be 2 player) Strategy: Draw a picture Use an object

Week 23:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.CA.1: Add and subtract fluently within 100.		
2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the share	es using the words halves, thirds, half of, a	third of, etc.; and
describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of id		
Students will:	AIMS:	1/4
	7411131	1/2
Partition circles into two, three, or four equal shares	Fresh Baked Fractions	1/3
	Tresti Bukeu Tructions	Fourths
		Halves
• Describe the shares using <u>numbers</u> such as: 1/2., 1/3, 1/4		Part out of whole
 Describe the whole as two halves, three thirds, four fourths, etc 		Thirds
10		Tillius
11 12 1		
/10 2		
9 3		
\8 4		
765		
	Internat Becommon	
Divide a rectangle in fourths: (at least ways)	<u>Internet Resources:</u>	
Charles and Han arisety and		
Strategy: Use pictures		
Use Objects		1



Week 24:		
Benchmarks to be taught:	Activities	Vocabulary
Standards: 2.G.5: Partition circles and rectangles into two, three, or four equal parts; describe the share describe the whole as two halves, three thirds, four fourths. Recognize that equal parts of ic 2.CA.1: Add and subtract fluently within 100.		
 Recognize equal parts of identical wholes need not have same shape Describe equivalent shares using words such as halves, thirds, fourths, half of, etc Describe a whole as two of two equal parts, three of three equal parts, etc 	AIMS: • Fresh Baked Fractions	Partition Part out of whole
	Internet Resources:	

Strategy: Use objects Draw a picture		
Draw a picture		
·		
Wooks 25 27.	<u> </u>	

Weeks 25-27:

Problem Solving: Should be embedded within daily instruction:							
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)							
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :				
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,				
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts				
	construct, summarize, interpret,	conclusions, assess					
	estimate						

- **2.CA.1:** Add and subtract fluently within 100.
- **2.M.5:** Tell and write time to the nearest five minutes from analog clocks, using a.m. and p.m. Solve real-world problems involving addition and subtraction of time intervals on the hour or half hour.
- **2.M.6:** Describe relationships of time, including: seconds in a minute; minutes in an hour; hours in a day; days in a week; and days, weeks, and months in a year.
- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a ten (e.g., 13 4 = 13 3 1 = 10 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13). Understand the role of 0 in addition and subtraction.
- **1.M.2:** Tell and write time to the nearest half-hour and relate time to events (before/after, shorter/longer) using analog clocks. Understand how to read hours and minutes using digital clocks.

Spiral:

Addition and Subtraction

2.NS.1: Count by ones, twos, fives, tens, and hundreds up to at least 1,000 from any given number.

Week 25:

Benchmarks to be taught:

Activities

Vocabulary

Standards:

- **2.CA.1:** Add and subtract fluently within 100.
- **2.M.5:** Tell and write time to the nearest five minutes from analog clocks, using a.m. and p.m. Solve real-world problems involving addition and subtraction of time intervals on the hour or half hour.

Students will: (Focus on the top 5 bullets. The bottom 2 will be week 26)

- Skip count by 5's to tell time in five-minute intervals on an analog clock.
- **Determine** the time on an analog clock
- **Write** the time as it would appear on a digital clock when given a time to the hour, half-hour, and five minute intervals.
- **Determine** the time on a digital clock <u>and</u> draw in the hands on an analog clock when given a time to the hour, half-hour, and five minute intervals.
- Use a.m. and p.m. correctly
- Solve real world problems with addition of time intervals on the hour or half hour
- Solve real world problems with subtraction of time intervals on the hour or half hour

Example:

Attack of the 50ft Turnip plays at 7:10. It is now quarter to seven. How long before the movie starts?

Example:

Mikey Mongoose begins at 2:35. It ends at 4:05. How long is the movie?

Strategy: Use objects

AIMS:

- Base Place: The Pluses
- Base Place: The Minuses
- Composing with Codes
- Time by Fives
- How Time Flies
- Double Time
- Can you Tell Time?

Analog clock

Day

Digital clock

Explain

Hours

Minutes

Nearest

Seconds

Time

Internet Resources:

http://interactivesites.weebly.com/timeclocks.html

http://resources.woodlands-

junior.kent.sch.uk/maths/measures.htm http://www.internet4classrooms.com/ski || builders/telling time math third 3rd grade.htm

Week 26:

Benchmarks to be taught:

Standards:

2.CA.1: Add and subtract fluently within 100.

2.M.6: Describe relationships of time, including: seconds in a minute; minutes in an hour; hours in a day; days in a week; and days, weeks, and months in a year.

Students will:

- Solve real world problems with addition of time intervals on the hour or half hour
- Solve real world problems with subtraction of time intervals on the hour or half

Example:

Attack of the 50ft Turnip plays at 7:10. It is now quarter to seven. How long before the movie starts?

Example:

Mikey Mongoose begins at 2:35. It ends at 4:05. How long is the movie?

- Describe the relationships of time
- Understand how seconds relate to a minute
- Understand how minutes are related to hours
- Understand how hours are related to days
- Understand how days are related to weeks
- Understand how weeks are related to months
- Understand how months are related to years

How does this work on a clock? A.M. P.M. 12 A.M. 12 A.M. 12 A.M.

AIMS:

Base Place: The Pluses

• Base Place: The Minuses

Composing with Codes

• Time by Fives

How Time Flies

Double Time

• Can you Tell Time?

a.m.

Analog clock

Day

Describe

Digital

Elapsed

Hour

Intervals

Minutes

Months

p.m. Seconds

Solve

Week

Year

Internet Resources:

http://mathsframe.co.uk/en/resources/resource/118/adding time word problems#

https://www.quia.com/rr/37585.html

http://mrnussbaum.com/timew/ (these
are a bit harder, down to the minute)

Strategy: Draw a picture

Week 27:

Standards: 2.CA.1: Add and subtract fluently within 100.		
2.CA.1. Add and subtract intentity within 100.		
**Review week! ** This will be used at your discretion. 1. Which standards does my class need more practice? 2. Which standards need more time to ensure mastery?	AIMS:	
	Internet Resources:	
Strategy:		

Weeks 28-30:

Problem Solving: Should be embedded within daily instruction:

Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)							
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :				
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,				
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts				
	construct, summarize, interpret,	conclusions, assess					
	estimate						

Standards for 3 weeks:

- **2.CA.1:** Add and subtract fluently within 100.
- **2.M.2:** Estimate and measure the length of an object by selecting and using appropriate tools, such as rulers, yardsticks, meter sticks, and measuring tapes to the nearest inch, foot, yard, centimeter and meter.
- **2.M.3:** Understand that the length of an object does not change regardless of the units used. 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.M.4:** Estimate and measure volume (capacity) using cups and pints.

Grade Level Correlation

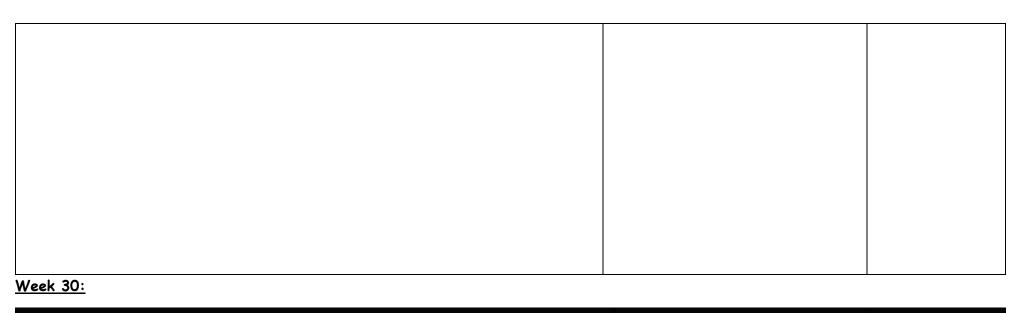
- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a ten (e.g., 13 4 = 13 3 1 = 10 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13). Understand the role of 0 in addition and subtraction.
- **1.M.1:** Use direct comparison or a nonstandard unit to compare and order objects according to length, area, capacity, weight, and temperature.

Week 28:

Benchmarks to be taught:	Activities	Vocabulary
 Standards: 2.CA.1: Add and subtract fluently within 100. 2.M.2: Estimate and measure the length of an object by selecting and using appropriate tools to the nearest inch, foot, yard, centimeter and meter. 	s, such as rulers, yardsticks, meter sticks, a	nd measuring tapes
Students will: Describe attributes of a standard linear measurement tool (equally spaced numbers, consecutive numbers) Understand that length tells how long, how tall, or how wide something is Select an appropriate tool to measure the length of an object Measure and record the length of various objects to the nearest inch, foot, centimeter, or meter	 Base Place: The Pluses Base Place: The Minuses Composing with Codes Time by Fives How Time Flies Double Time Can you Tell Time? 	Appropriate Centimeter Estimate Foot Inch Length Measure Measuring tape Meter Meter stick Object Rulers Tools Yard Yardsticks
Strategy: Use objects	Internet Resources: http://interactivesites.weebly.com/meas urement.html http://www.funbrain.com/measure/ https://www.sheppardsoftware.com/ma thgames/menus/measurement.htm http://www.softschools.com/measureme nt/games/	

Week 29:

Benchmarks to be taught:	Activities	Vocabulary
tandards:		
CA.1: Add and subtract fluently within 100.		
M.3: Understand that the length of an object does not change regardless of th	e units used. Measure the length of an object twice	e using length units of
fferent lengths for the two measurements. Describe how the two measurements	nts relate to the size of the unit chosen.	
dt	AVAGE	Continents
tudents will: eview 2.M.1:	AIMS:	Centimeter Estimate
eview Z.IVI.1:	What's in Your Yard?	Foot
Understand length does not change regardless of units used		Inch
Describe how two measurements relate to size of unit used	Inching AlongTuber Talk	Length
Describe now two measurements relate to size of unit used	• Tuber Talk	Measure
		Meter
		Meter sticks
		Metric units
		Rulers
		Standard units
		Unit
		Yard
		Yardsticks
	Internet Resources:	
	http://interactivesites.weebly.com/me	<u>eas</u>
	<u>urement.html</u>	
	http://www.funbrain.com/measure/	
	https://www.sheppardsoftware.com/i	<u>ma</u>
	thgames/menus/measurement.htm	
	http://www.softschools.com/measurent/games/	<u>eme</u>
	<u>nt/games/</u>	
rategy: Use objects		
Make a table		



Benchmarks to be taught:	Activities	Vocabulary
Standards:		·
2.CA.1: Add and subtract fluently within 100.		
2.M.4: Estimate and measure volume (capacity) using cups and pints.		
 Estimate volume Measure volume Understand the difference between volume and length Know what tools to use for length and liquids 	Internet Resources: http://interactivesites.weebly.com/meas	Capacity Cups Estimate Fluid Measure Pints Volume

http://www.sheppardsoftware.com/ma
thgames/menus/measurement.htm
http://www.softschools.com/measureme
nt/games/

Strategy: Use Objects

Weeks 31-33:

Problem Solving: Should be embedded within daily instruction:							
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)							
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :				
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,				
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts				
	construct, summarize, interpret,	conclusions, assess					
	estimate						

Standards for 3 weeks:

Grade Level Correlation

2.CA.1: Add and subtract fluently within 100.

- **3.NS.1**: Read and write whole numbers up to 10,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 10,000.
- **3.NS.2:** Compare two whole numbers up to 10,000 using >, =, and < symbols.
- **3.NS.9**: Use place value understanding to round 2- and 3-digit whole numbers to the nearest 10 or 100.

- **1.CA.1:** Demonstrate fluency with addition facts and the corresponding subtraction facts within 20. Use strategies such as counting on; making ten (e.g., 8+6=8+2+4=10+4=14); decomposing a number leading to a ten (e.g., 13-4=13-3-1=10-1=9); using the relationship between addition and subtraction (e.g., knowing that 8+4=12, one knows 12-8=4); and creating equivalent but easier or known sums (e.g., adding 6+7 by creating the known equivalent 6+6+1=12+1=13). Understand the role of 0 in addition and subtraction.
- **2.NS.2:** Read and write whole numbers up to 1,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 1,000.
- **2.NS.7:** Use place value understanding to compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.

Week 31:

Benchmarks to be taught:

Activities

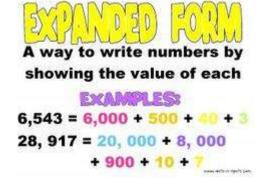
Vocabulary

Standards:

- **2.CA.1:** Add and subtract fluently within 100.
- **3.NS.1:** Read and write whole numbers up to 10,000. Use words, models, standard form and expanded form to represent and show equivalent forms of whole numbers up to 10,000.

Students will:

- **Read** whole numbers up to 10,000
- Write whole numbers up to 10,000
- **Use** words for standard form
- **Use** models for standard form
- Represent equivalent forms of whole numbers



Strategy: Use a Number Sentence

AIMS:

Equivalent form
Models
Place value
Represent
Standard form
Whole number

Internet Resources:

http://www.funbrain.com/numwords/http://www.sheppardsoftware.com/mathgames/placevalue/mathman_place_exp_.htm

http://www.math-play.com/place-value-games.html

Week 32:

Benchmarks to be taught:	Activities	Vocabulary
Standards:		
2.CA.1: Add and subtract fluently within 100.		

3.NS.2: Compare two whole numbers up to 10,000 using >, =, and < symbols. Students will: Compare AIMS: • **Compare** whole numbers Equal to Greater than Use the greater than symbol Less than Use the less than symbol Place value Use the equal sign correctly **Symbol** Internet Resources: 3 + 2http://www.gameclassroom.com/game/ 45533-3750/compare-numbers-10000/compare-numbers-game http://www.sheppardsoftware.com/mat hgames/placevalue/FSCompareNumbers. htm

Strategy: Draw a picture

Week 33:

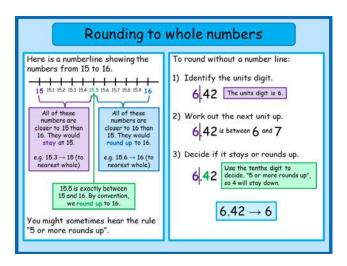
Benchmarks to be taught:	Activities	Vocabulary

Standards:

- 2.CA.1: Add and subtract fluently within 100.
- 3.NS.9: Use place value understanding to round 2- and 3-digit whole numbers to the nearest 10 or 100.

Students will:

- Round 2-digit whole numbers
- Round 3-digit whole numbers



AIMS:

Estimate Place value Round Whole number

Internet Resources:

http://www.math-play.com/Rounding-Numbers-Pirate-Game.html
http://mrnussbaum.com/halfcourt/
http://www.sheppardsoftware.com/mathgames/round/mathman_round_hundreds.htm

Strategy: Use a Number Sentence

Weeks 34-36:

Problem Solving:	Should be embe	dded within daily i	nstruction:				
Make sense of problems and persevere in solving them.	Reason abstractly and quantitatively	Construct viable arguments and critique the reasoning of others	Model with Mathematics	Use appropriate tools strategically	Attend to precision	Look for and make sure of structure	Look for and express regularity in repeated reasoning.
PS.1	PS.2	PS.3	PS.4	PS.5	PS.6	PS. 7	PS.8

DOK (Depth of Knowledge)				
<u>Level 1</u> :	<u>Level 2:</u>	<u>Level 3</u> :	<u>Level 4</u> :	
identify, list, label, illustrate,	graph, classify, cause/effect,	Revise, critique, construct,	Design, connect, synthesize, critique,	
measure, state, tell, use, match	estimate, compare, infer,	investigate, cite evidence,	analyze, create, prove, apply concepts	
	construct, summarize, interpret,	conclusions, assess		
	estimate			

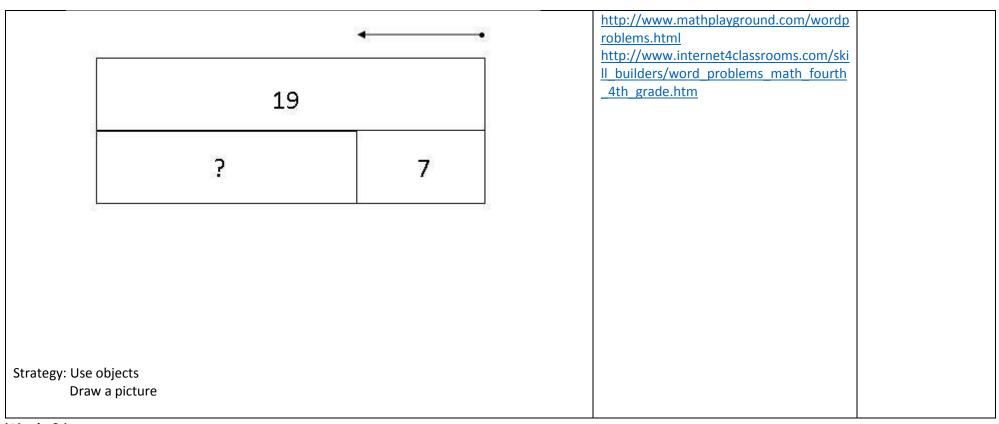
Critical Standards (check plus) for 3 weeks:	Grade Level Correlation
3.C.1: Add and subtract whole numbers fluently within 1000.	2.CA.1: Add and subtract fluently within 100.
3.AT.1: Solve real-world problems involving addition and subtraction of whole numbers within 1000 (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem).	2.CA.2: Solve real-world problems involving addition and subtraction within 100 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem). Use estimation to decide whether answers are reasonable in addition problems.
3.AT.4: Interpret a multiplication equation as equal groups (e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each). Represent verbal statements of equal groups as multiplication equations.	2.CA.5: 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 groups.

Week 34:

nts will:			AIMS:	Addends
 Add whole numbers with carrying/trading Subtract whole numbers with regrouping 			Addition Difference Regroup Regrouping	
Tens	Ones	4.17		Subtraction Sum
	00 0	- 29		Trading
	00 00	28	Internet Resources: http://mrnussbaum.com/drag-and	<u>l-</u>
	let's show our work in the sub	SYSTEM SOURCES	drop-math/	
		ones do we have now? tens do we have now?	http://nlvm.usu.edu/en/nav/frame _154 g 1 t 1.html?from=topic t http://nlvm.usu.edu/en/nav/frame	1.html
Now that we have	ve <u>regrouped</u> , we can subtra with the ones!	ct. Remember, we still start	155 g 1 t 1.html?from=topic t	

Veek 35:	Activities	Vacabularu
Benchmarks to be taught:	Activities	VOCabulary
Benchmarks to be taught: Standards: 3.C.1: Add and subtract whole numbers fluently within 1000. 3.AT.1: Solve real-world problems involving addition and subtraction of whole unknown number to represent the problem)		Vocabulary tions with a symbol for the

Internet Resources:



Week 36:

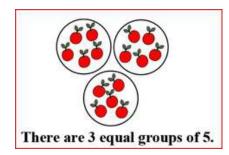
Benchmarks to be taught:	Activities	Vocabulary
Standards:		

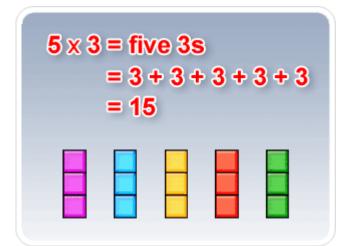
3.C.1: Add and subtract whole numbers fluently within 1000.

3.AT.4: Interpret a multiplication equation as equal groups (e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each). Represent verbal statements of equal groups as multiplication equations.

Students will:

- Interpret multiplication as equal groups
- Interpret multiplication as repeated addition
- Represent multiplication by using objects





Strategy: Draw a picture Find a pattern AIMS:

Equal groups
Equation
Interpret
Multiplication

Objects Represent

Verbal

Internet Resources:

Standards:	Benchmarks to be taught:	Activities	Vocabulary
Students will:		AIMS:	
		Internet Resources:	