Grade 1 Math Unit 3
Curriculum Unit Planning
Canterbury Public Schools

Subject	Mathematics
Grade Level	Grade 1
Unit Title	Unit 3 Adding and Subtracting within 20
Unit Goals	Add and subtract within 20 Apply the properties of operations and the relationship between addition and subtraction Build toward fluency with adding and subtracting within 20 Add and subtract one-digit numbers from teens numbers without composition or decomposing a ten Find the value that makes an addition or subtraction equation true, involving 10 Understand 10 ones as a ten and the numbers 11 - 19 as ten and some ones Add within 20 using 3 addends Subtract within 20 Apply counting on as a method for addition Understand and use the commutative property Add within 10 Look for and use patterns in addition expressions that have a value of 10 Add and subtract single-digit numbers from teen numbers without decomposing or composing a ten
Pacing (# of weeks)	4 - 6 weeks
Standards	1.OA.A.1, 1.OA.A. 2, 1.OA.B.3, 1.OA.B.4, 1.OA. C.5, 1.OA.C.6, 1.OA.C.7, 1.OA.D.7,1.OA.D.8, 1.NBT.A.1, 1. NBT.B.2
Content/Conceptual Knowledge (know)	Teen numbers are a ten and some ones There is a relationship between addition and subtraction Counting on by 1 or 2 , counting backward by 1 or 2 Sums within Commutative property of addition Math facts to 20 As the subtrahend , or the number being subtracted, increases, the difference decreases As the subtrahend decreases, the difference increases
Skills (be able to do)	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing with unknowns in all positions.

	Find the value that makes an addition or subtraction equation true, involving 10 Count all to find the value of a sum Count on to find the value of the sum or difference Take away to find the value of the difference Use the 10 + n structure of a teen numbers to add and subtract Solve word problems that call for addition of three whole numbers whose sum is less than 20 add and subtract within 20 Use mental strategies, such as counting on, making 10, decomposing a number leading to 10, knowing the relationship between addition and subtraction, and creating equivalent but easier or known sums How to find an unknown through reasoning Find the difference Compose and decompose teen numbers into 1 ten and some ones Solve story problems within 20 with three addends, two or which make a ten Determine whether equations with an expression on each side of the equal sign are true Look for patterns to help with addition
Essential Questions	What are some ways to think about representing addition and subtracting problems ? What are ways to distinguish between addition and subtraction problems? What strategies can be used to solve addition and subtraction problems? How can counting strategies help with addition and subtraction? What are the strategies for mastering addition and subtraction within 20?
Enduring Understandings	Adding to and putting together are two situations that involve addition. Taking from, taking apart and comparing are three situations that involve subtraction Three numbers can be added in any order and the sum will be the same There are strategies for learning addition and subtraction facts within 20 that will help fluency . The number 10 can be represented on a ten-frame using 5 and 10 as benchmark numbers. Number relationships of 0-more or less than, 1 more or less than, and 2 more or 2 less than, are the basis for addition and subtraction facts with 0,1 and 2
Vocabulary	Properties,sum, a ten, equal, difference, equation,
Common Learning Experiences	Act out story problems in order to find a sum or difference/ missing addend Use 10 frames and counters to make sense of word problems Compose and decompose numbers to add up to three addends within 20

	Activities and centers Activity 2 Clare's Birds Activity 1 Different Ways to Subtract Number talks Shake and Spill Cover Up Number puzzles Check It Off Find the Pair Compare (1-5) How Close? Five in a row Notice and wonder using an addition table My Favorite Sum Compare, Add and Subtract within 10 Game Choral counting Are Both Sides Equal? Explore teen numbers 10 ones is a unit called "10" Counting collections- count and show how many Add within 20 when one addend is a teen number Gallery Walk- create a poster to show all the expressions equivalent to their assigned 10 + n = expression A Trip to the Zoo Write a story problem
Assessments	(performance- based think alouds, complete activity and tell how they know, Cool downs, Practice problems Explain reasoning Make sense of problems /explain reasoning End of section review End of unit assessment
Student Resources	10 frames, activities, warm- ups and cool downs, counters, cubes,
Teacher Resources	Ten frames, counters, linking cubes The Sky Painter by Margarita Engle