Grade 1 Math
Unit 2
Canterbury Public Schools

Subject	Mathematics
Grade Level	Grade 1
Unit Title	Addition and Subtraction Story Problems
Unit Goals	Solve new types of story problems within 10 using the relationship between addition and subtraction. Connect story problems to equations Solve addition and subtraction problems within 20 work with equations with a symbol for the unknown in all positions, develop fluency within 10
Pacing (# of weeks)	4 - 6 weeks
Standards	Section A Add to and take from story problems 1.MD.C.4, 1.OA.A.1, 1.OA.B.4, 1.OA.C.5, 1.OA.C.6, 1.OA.D7 Section B Put together/take apart story problems 1. NBT.A.1, 1.OA.A.1, 1.OA.B.4, 1.OA.C.6, 1.OA.D.7, 1.OA.D.8 Section C Compare Story Problems 1. OA.A.1, 1.MD.C.4, 1.OA.A.1, 1.OA .B.4, 1.OA.C.5, 1.OA.C.6, 1.OA.D.7 Section D All Kinds of story problems 1.NBT.A.1, 1.OA.A,1.OA.A.1, 1,OA.!.2, 1.OA.B.4, 1.OA.C.6, 1.OA.D.7, 1.OA.D.8
Content/Conceptual Knowledge (know)	There are relationships between addition and subtraction/ part -part-whole There are alternative ways to solve mathematical story problems Tell why an equation matches a given story- set of circumstances Addends can be written in either order and that they each represent a specific part of a story problem
Skills (be able to do)	Section A Solve add to and take from, result unknown and add to, change unknown story problems. Understand the meaning of the equal sign Write equations and learn the convention of drawing a box around the answer to the questions in the story problem

	Share strategies and understandings for adding or subtracting 1 or 2 to a given number Understand a story problem and how quantities are related Make sense of story problems Solve put together/take apart problems with the unknown in different positions Write equations to represent problems Relate addition and subtraction Write addition or subtraction equations to represent a story problem and orally explain why it matches Solve and compare, difference unknown problems Make sense of problems by reasoning about questions, quantities, and relationships - write equations to represent them Find the sums /find the difference Section B Write an expression to represent the action in a story problem Notice and wonder Tell a math story based on a picture Make sense of the structure of subtraction Work independently then with a partner to share thinking Students solve a new type of problem (add to/change unknown. Make sense of the commutative property because the two parts can be combined in different orders Connect quantities to written symbols Solve story problems using addition and subtraction strategies Section C Practice problems Section D Identify how a variety of story types are the same and different Solve a story problem and write an equation to match the problem Compare different story problems and consider how the structure of the problems are the same or different.

Essential Questions	How do I determine the best numerical representation for a given situation? Why do I need mathematical operations? How do I know where to begin when solving a problem? How does explaining the process help me to understand a problem's solution better? Why doesn't the order of the addends matter in an addition problem?
Enduring Understandings	Number sense develops through experience Operations create relationships between numbers The ability to solve problems is the heart of mathematics The order of the addends can change in an equation but does not affect the sum (commutative property)
Vocabulary	Add in any order, find the difference, less, fewer
Common Learning Experiences	Centers, Sort and Display Ask questions about sorting, categorizing of objects Write addition expressions Find the Pair Shake and Spill Capture Squares Students write equations to match a situation Represent and solve story problems Relate an equation with an unknown to a story problem Make two quantities the same Identify the number that represents the answer in an equation Put a box around the answer Notice and wonder Practice completing equations Connect and explain connections and representations Solve problems in any way that makes sense Write an equation that matches the story problem Explain why it matches Reword another student's thinking and justify the answer in a different way Activity 1 and 2

	Tell a story about a picture/ write and explain the equation that matches the picture and explanation Complete Activities 1 and 2 Break numbers apart and put them back together Write equations to represent decomposition Shake and spill and cover game Share different methods for finding a hidden number Capture Squares- add within 10 Add or subtract to solve a puzzle / solve story problems by addition and subtraction equations problem Represent and solve Compare, Difference Unknown problems in ways that make sense
Assessments	Retell a story Represent a story with objects or drawings Represent a story with equations Explain how their representation match a story problem Answer the question correctly Explain how their representation matches the story Represent the story with equations
Student Resources	10 frames, counters, cubes, cups, tools for creating a display
Teacher Resources	Teacher manuals and student texts