

Unit 4
Kindergarten Math Curriculum
Canterbury Public Schools

Subject	Mathematics
Grade Level	Kindergarten
Unit Title	Understanding Addition and Subtraction
Unit Goals	<p>Relate counting to addition and subtraction and solve addition and subtraction story problems within 10</p> <p>Find the value of addition and subtraction expressions within 10</p> <p>Relate addition and subtraction expressions to story problems</p> <p>Find the total within 10</p> <p>Use objects to show the action of addition</p> <p>Use objects to show the action of subtraction</p>
Pacing (# of weeks)	4 to 6 weeks
Standards	<p>Section A- K.CC, K. CC. A.1, K.CC.B.5, K.OA.A.1</p> <p>Section B- K.CC.A.1, K.CC.A.3, K.CC. B.5, K.OA.A.1, K.OA. A.2</p> <p>Section C- K.CC.A.1, K.CC.A.2, K.CC.A.3, K.CC.B.4c, K.OA. A.1, K. OA.A.1</p>
Content/Conceptual Knowledge (know)	<p>Counting is the result of two actions: putting objects together or taking objects away</p> <p>The concept of "0" ; count no objects</p> <p>The concept of addition and subtraction</p> <p>Connect expressions to story problems</p> <p>Interpret expressions</p>
Skills (be able to do)	<p>Built their counting skills and ability to represent quantities in a group with their fingers, objects, drawings, and numbers.</p> <p>Building and separating quantities</p> <p>Make sense of stories without questions and solve story problems of two types, add to, result unknown and take from result unknown.</p> <p>Connect expressions to pictures and story problems</p> <p>Find the value of addition and subtraction expressions within 10</p> <p>Compose and decompose numbers up to 10 and solve other types of addition and subtraction problems</p> <p>Represent and solve Add To, Result Unknown and Take From, Result Unknown story problems</p> <p>Interpret a phrase such as, "5 and 3" to mean combining two groups of objects. "5 take away 3" to mean finding what remains after removing 3 objects from a group of 5 objects.</p> <p>Tell a story based on a picture</p> <p>Represent addition and subtraction stories with objects</p>

	<p>Connect language to the actions of addition and subtraction</p> <p>Solve story problems including problems with a result of “0”</p> <p>Create story problems</p> <p>Count to 50</p>
Essential Questions	<p>How do you “add” and “subtract”?</p> <p>What does it mean to “take away”?</p> <p>How can pictures and objects tell a story problem?</p> <p>What clues and strategies can help me to solve a story problem?</p>
Enduring Understandings	<p>Counting is adding on or taking away</p> <p>Subitizing helps to visualize amounts</p> <p>Counting on and backward can help me to solve mathematical problems</p> <p>Objects can help me to add and subtract</p> <p>Adding 0 results in the same number</p> <p>Adding 1 results in the next number in the count sequence</p>
Vocabulary	<p>Total, expression, addition, subtraction, take away, build, connect,</p>
Common Learning Experiences broken down by standard addressed in the unit	<p>Act out story problems, connect cubes, count scattered images,</p> <p>Activity 1 Markers at School</p> <p>Activity 2 Notice and Patterns</p> <p>Apple Slices for a picnic</p> <p>Compare drawings</p> <p>Picture Gallery Walk</p> <p>Compare addition and subtraction story problems</p> <p>Match drawings to expressions</p> <p>Centers: Math Libs, Match Mine, Roll and Add, 5 Frames, Subtract, Subtraction Towers, Build Shapes, Counting Collections, Math Stories, Math Fingers, Bingo, Number Race, Shake and Spill, Color the total or difference, Practice problems, Number Race</p> <p>Color the total or difference</p> <p>Activities:</p> <p>Put Together Pattern Blocks</p> <p>Put Together Connecting Cubes?</p> <p>How many apples?</p> <p>Roll and Add dots</p> <p>Count Scattered Images</p> <p>Subtraction Towers</p> <p>Finish the Story</p> <p>Balls at Recess</p> <p>Ducks at the pond</p>

	Ducks swim ashore
Assessments	unit assessments, essay questions, performance based, informal observations, conversations with students, practice problems,
Student Resources	Connecting cubes, pattern blocks, 5 frames, counters, technology)
Teacher Resources	Picture books, cubes, blocks,
Strategies	Warm Ups and Cool Downs, Teacher reads story problems Model, turn and talk Teacher models what they are saying using expressions Notice and Wonder Use blocks to model number expressions Color the total or difference