

Curriculum Map

Course Title: Math

Grade: Kindergarten

Unit (Name/Number): Algebraic Concepts	Pacing: Support Additional - Refer to RCC for pacing guide
Essential Question(s): How do you put together (or join) to add and take apart (or away) to subtract?	

Content/Key Concepts	Standards	Key Vocabulary	Learning Activities/Resources	Evidence of Learning (Assessments; Performance Tasks)
Addition to 10 - Represent addition (e.g. with objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, expressions, or equations) - Find the number that makes 10, for any number 1 to 9 - Solve addition word problems, and add within 10 - Begin to discern a pattern in addition number sentences - Experiment with representing problem situations in multiple ways including numbers, words, drawing pictures, using objects, acting out, making a chart or list, etc. - Connect the different representations and explain the connections	<u>Common Core</u> K.OA.1, K.OA.2, K.OA.5 <u>PACS</u> CC.2.2.K.A.1	- number story - join - in all - altogether - add - plus sign - equal sign - sum - addition sentence (equation) - number line - part - whole	Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from. RCC - Unit 4: Operations and Algebraic Thinking (Lessons 14, 15 & 18) - Understand Addition - Add within 5 - Add within 10 Envision - Topics 7 & 9	RCC Lesson Quizzes RCC Mid-Unit Assessment & Unit Assessment Practice Standards: 1,2,3,4,5,6,7,8 1 - Make sense of Problems 2 - Reason abstractly and quantitatively 3 - Construct arguments and critique the reasoning of others 4 - Model with mathematics 5 - Use appropriate tools 6 - Attend to precision 7 - Look for and make use of structure 8 - Look for and express regularity in repeated reasoning (e.g. noticing patterns)
Subtraction from 10 (including computation strategies) Represent subtraction (e.g. with objects, fingers, mental images, drawings, sounds, acting out	<u>Common Core</u> K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5 <u>PACS</u> CC.2.2.K.A.1	- left - separate - take away - minus sign - subtract - difference	RCC - Unit 4: Operations and Algebraic Thinking (Lessons 16, 17, 19) - Understand Subtraction - Subtract within 5 - Subtract within 10	

situations, verbal explanations, expressions, or equations) • Decompose numbers less than or equal to 10 in more than one way, by using objects or drawings. • Solve subtraction word problems, and subtract within 10 • Begin to discern a pattern in subtraction number sentences • Experiment with representing problem situations in multiple ways including numbers, words, drawing pictures, using objects, acting out, making a chart or list, etc. • Connect the different representations and explain the connections		• subtraction sentence • number line • part • whole • number sentences • making numbers	Envision - Topic 8 Resources to Consider: - Five & Ten Frame - Number Line - Number Chart - Number Bond - Part-Part-Whole - Use of manipulatives - Rekenrek Activities - Websites (e.g. Turtlediary.com) Children's Literature: - <u>One is a Snail, Ten is a Crab</u> by. April Pulley Sayre - <u>Monster Musical Chairs</u> by. Stuart J. Murphey - <u>If you were a Minus Sign</u> by. Tricia Speed Shaskan - <u>Five Little Monkeys Jumping on the Bed</u> by Eileen Christelow Pennsylvania Learning Standards for Early Childhood: http://static.pdesas.org/content/documents/Pennsylvania%20Early%20Childhood%20Education%20Standards%20for%20Kindergarten.pdf	
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