

Grade: K Unit: 4	Operations and Algebraic Thinking	7 Weeks
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Progression

Kindergarten	Students are introduced to the term “add” as a way of joining together small quantities into a single group. Students will begin to think about how addition is used in everyday situations by drawing pictures of real-world objects. Children will also extend addition concepts to story word problems, and then apply addition concepts to gain an understanding of subtraction and solving subtraction problems.
1 st Grade	Students will use their understanding of the meaning of addition to develop strategies for learning addition facts and to add two-digit numbers.

STUDENT LEARNING GOALS

Mathematics Standards (*Appendices A & B*)

[K.OA.A.1](#): Represent addition with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

[K.OA.A.2](#): Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

[K.OA.3](#): Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).

[K.OA.A.5](#): Fluently add and subtract within 5.

[MP1](#): Make sense of problems and persevere in solving them.

[MP6](#): Attend to Precision

Interdisciplinary Standards

Key Vocabulary

Technology Integration <i>(Appendix C)</i>	21 st Century Skills <i>(Appendix D)</i>	Add Subtract	Equal (To) Same As Total Equals, =	Plus, + Minus, - Number Sentence Addend
IS1. Information Strategies IS2. Information Use	TCS1. Use of Information TCS5. Problem Solving			

Enduring Understandings

- I can understand the term “add”
- I can understand the term “subtract”
- I can use pictures to show addition
- I can use pictures to show subtraction
- I can solve addition and subtraction word problems within 10 using pictures or objects
- I can fluently add and subtract facts to 5.

Essential Questions

- What does it mean to “add”?
- What does it mean to “subtract”?
- How can you add or subtract using pictures or objects?
- How do you use pictures or objects to solve word problems?
- Why is it important to develop fluency when adding or subtracting facts to 5?

Assessment Plan			
Summative Assessment(s)/Performance Based Assessments including 21 st Century Learning		Formative and Diagnostic Assessment(s) STAR Math Assessment (Fall) RCC Embedded Tasks and Assessments	
Learning Plan Components			
Text	Ready Common Core Mathematics Instruction K, 2014, Curriculum Associates, ISBN: 978-0-7609-8854-1		
Print	Ready Common Core Mathematics Teacher Resource Book K, 2014, Curriculum Associates, ISBN: 978-0-7609-8656-5		
Electronic	www.teacher-toolbox.com www.stratfordmath.wikispaces.com www.xtramath.org		
Week 1	Students will: <ul style="list-style-type: none"> Act out an addition story problem Use pictures to show addition Understand that the term “add” represents put-together or add-to situations. Use the + symbol to represent adding two parts Use the = symbol to show equality between two sides of a number sentence 		
Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 14: <i>Understand Addition</i> (TRB p. 96-102)	Five Little Ducks	*Number of the Week MI p. 53-56 PPS p. 27	Teacher-Toolbox Acting Out Addition and Subtraction - Level K
Week 2	Students will: <ul style="list-style-type: none"> Solve addition word problems within 5, using pictures or objects. Recognize both put-together and add-to situations as addition problems. Find pairs of addends to make a given total. 		
Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 15: Add Within 5 (TRB p. 103-109)	Bears in the Cave Teddy Bear Picnic Addition Sticks	*Number of the Week MI p. 57-60 PPS p. 28	Teacher-Toolbox Joining Sets to Add - Level K
Week 3	Students will: <ul style="list-style-type: none"> Act out a subtraction story problem. Use pictures to show subtraction. Understand that the terms “subtract” and minus” represent take-away situations. Use the minus sign to represent taking away one part. Use the = symbol to show equality between the two sides of a number sentence. 		
Lessons	Tasks / Activities	Worksheets	Technology
RCC Lesson 16: <i>Understand Subtraction</i> (TRB p. 110-116)	Build and Remove It My Subtraction Story	*Number of the Week MI p. 61-64 PP p. 29	Teacher-Toolbox Acting Out Addition and Subtraction - Level K

Week 4	Students will: <ul style="list-style-type: none"> Solve and take away subtraction word problems within 5, using pictures or objects. Recognize take-away situations as subtraction problems 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 17:</u> Subtract Within 5 (TRB p. 117-123)	Teddy Bear Picnic Subtraction Sticks	*Number of the Week MI p. 65-68 PPS p. 30	Teacher-Toolbox Taking Away to Subtract - Level K
Week 5	Students will: <ul style="list-style-type: none"> Solve addition word problems with sums from 6 to 10 using pictures or objects. Recognize both put-together and add-to situations as addition problems Relate an addition number sentence to an addition problem. Add within 10. Find pairs of addends to make a given total. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 18:</u> Add Within 10 (TRB p. 124-130)	Addition Plate	*Number of the Week MI p. 69-72 PPS p. 31	Teacher-Toolbox One More - Level K
Week 6	Students will: <ul style="list-style-type: none"> Solve take-away subtraction word problems within 10 using pictures or objects. Recognize take-away situations as subtraction problems. Relate a subtraction number sentence to a subtraction problem. Subtract within 10. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 19:</u> Subtract Within 10 (TRB p. 131-137)	Subtraction Plate	*Number of the Week MI p. 73-76 PPS p. 32	Teacher-Toolbox One Less - Level K
Week 7	Students will: <ul style="list-style-type: none"> Develop fluency with addition facts to 5. Develop fluency with subtraction facts to 5. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 20:</u> Practice Facts to 5 (TRB p. 138-144)	Addition Sticks Subtraction Sticks Teddy Bear Picnic	*Number of the Week MI p. 77-80 PPS p. 33	Teacher-Toolbox
Summative Assessment		Performance Task	
Unit 4 (based on RCC) Practice Resources Found online Teacher-Toolbox			