

Grade: 1 Unit: 1	Add and Subtract	5 Weeks
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Progression

K	Students learned to understand addition as putting together and adding to, and understand subtraction as taking apart and taking from. Students learned to add and subtract within 10 and fluently add and subtract within 5.
1st Grade	Students will learn to represent and solve problems involving addition and subtraction, understand and apply properties of operations and the relationship between addition and subtraction, add and subtract within 20 and work with equations.
2 nd Grade	Students will extend their work in representing and solving problems involving addition and subtraction, adding and subtracting within 20, and students will begin work with equal groups of objects to gain a foundation for multiplication.

STUDENT LEARNING GOALS

Mathematics Standards (Appendices A & B)

[1.OA.C.5](#): Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).

[1.OA.C.6](#): Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$).

[1.OA.A.1](#): 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, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

[1.OA.B.4](#): Understand subtraction as an unknown-addend problem. *For example, subtract $10 - 8$ by finding the number that makes 10 when added to 8.*

(Include MP1 and MP6 for all units for 2014-2015)

[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 Addend Addition sentence Commutative property of addition Compare Count on Fewer	More Number Bond Number path Subtract Subtraction Sentence Tape diagram Total
IS1. Information Strategies IS2. Information Use	TCS1. Use of Information TCS5. Problem Solving		

<p>Enduring Understandings (MI p.1)</p> <ul style="list-style-type: none"> • I can count on to add. • I can count on to subtract. • I can solve addition and subtraction word problems. • I can use addition sentences to write subtraction sentences. • I can find the missing addends. • I can subtract to compare. 	<p>Essential Questions</p> <ul style="list-style-type: none"> • How can you count on to add and subtract? • How can you use addition and subtraction to solve word problems? • Why is addition and subtraction related? • What is a missing addend? • How can you compare numbers using subtraction?
Assessment Plan	
<p>Summative Assessment(s)/Performance Based Assessments including 21st Century Learning</p> <p>RCC Unit 1 Review, MI p.22-24 RCC Unit 1 Practice, PPS p.7-10</p>	<p>Formative and Diagnostic Assessment(s)</p> <p>STAR Math Assessment (Fall) RCC Embedded Tasks and Assessments</p>
Learning Plan Components	
Text	<p>Ready Common Core Mathematics Instruction 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8861-9</p>
Print	<p>Ready Common Core Mathematics Teacher Resource Book 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8857-2</p>
Electronic	<p>www.teacher-toolbox.com www.stratfordmath.wikispaces.com www.xtramath.org</p>

Week 1	Students will: <ul style="list-style-type: none"> • Add within ten. • Apply the counting on strategy. • Analyze counting strategies. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 1:</u> Count On to Add (TRB p.3-9)	*Math Idea: Counting on to Add *Counting On Poem *Counting On Poster *Get on the Bus *Counting on Cupcakes *Math Center- Relating Counting to Addition *One More on a Ten Frame *Show One More	MI p.2-5 PPS p.1 *SF 3-1 R, P, E, PS *Getting a Lift	*RCC Interactive Lesson- Counting on to Solve Addition Problems *RCC Interactive Lesson- Joining Sets to Add *Youtube Video: Addition by Counting On, MatholiaChannel *United Streaming Song: Addition Unplugged: Counting On *United Streaming Video: Counting On: Counting Seasickness Pills (5:25) *Online Game: How Many Under the Shell? *Online Game: Counting On (in ones)

Week 2	Students will: <ul style="list-style-type: none"> • Apply the counting on strategy to subtract within 10. • Model the counting on strategy using physical and visual models. • Connect the counting on strategy to a number sentence. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 2:</u> Count On to Subtract (TRB p.10-16)	*Count on to Subtract *Chow Time	MI p.6-9 PPS p.2 *Don't Miss the Bus *Hooray for Fall *Lovely Leaves	*RCC Interactive Lesson- Counting on to Solve Addition Problems *RCC Interactive Lesson- Subtraction Concepts: Separation *Online Game: Subtraction as an Inverse of Addition *Video: Subtraction as an Inverse of Addition: Subtraction 2 *Video: Relating Addition and Subtraction *Online Game: Balloon Pop Subtraction

Week 3	Students will: <ul style="list-style-type: none"> • Use strategies, including counting on, to solve addition and subtraction word problems. • Complete number sentences to solve addition and subtraction word problems. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 4:</u> Add and Subtract in Word Problems (TRB p.17-23)	*At the Park- Add To *Sharing Markers- Take From (these are both illustrative math, use as discussion, math talk, or problem of the day) *Bunk Bed Problem- Put Together Take Apart & Recording Sheet *Making Apple Ten Packs & Recording Sheet	MI p.10-13 PPS p.3 *Addition Word Problems *Subtraction Word Problems	*RCC Interactive Lesson- Counting on to Solve Addition Problems *RCC Interactive Lesson- Subtraction Concepts: Part-Part-Whole *Youtube Video: Addition and Subtraction Using Word Problems *Youtube Video: Learn Grade One-Maths-Addition Word Problems *Youtube Video: Learn Grade One-Maths-Subtracting Word Problems *Online Game: Adding and Subtracting Word Problems

Week 4	Students will: <ul style="list-style-type: none"> • Understand the relationship between addition and subtraction. • Write a missing addend sentence for a corresponding subtraction sentence. • Connect addition and subtraction sentences to a number bond. • Relate subtraction sentences and missing addend sentences to a problem situation. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 4:</u> Understanding Missing Addends (TRB p.24-30)	*Find the Missing Number	MI p.14-17 PPS p.4 *School for Fish *Wise Owl *Number Bond Trees	*RCC Interactive Lesson- Addition and Subtraction Fact Families Part 1 & Part 2 *RCC Interactive Lesson- Relating Addition and Subtraction Facts *Youtube Video: Addends and the Sum Singalong *Youtube Video: Wolf's Missing Addend Video *Youtube Video: Missing Addends and Subtraction *Youtube Video: The Mystery of the Missing Addends *Online Game: Ace of Numbers Online Game: Number Bonds *Online Video and Test: Relate Addition to Subtraction

Week 5	Students will: <ul style="list-style-type: none"> • Understand a comparison problem situation as subtraction and/or related addition. • Compare two amounts, determining which is more or less and identifying how many more or less. • Write and solve subtraction and addition sentences to solve comparison word problems. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 5:</u> Subtract to Compare in Word Problems (TRB p.31-37)	*Maria's Marbles- Compare (illustrative math, use as discussion, math talk, or problem of the day)	MI p.18-21 PPS p.5 *Comparing Numbers *Compare Word Problems	*RCC Interactive Lesson- Subtraction Concepts: Comparison *Video: Singapore Math-Comparison Word Problems-Bar Model *Online Game: Comparison Word Problems *Online Game: Subtract to Compare *Online Game: Subtract to Compare *Online Video: Subtract to Compare
Summative Assessment		Performance Task	
RCC Unit 1 Review -MI p. 22-24 -Scoring Guide (TRB p. 38-39)		RCC Unit 1 Practice -PPS p.7-10 -Rubric (Teacher-Toolbox)	