

Grade: 1 Unit: 2	Learn Facts to 10	6 Weeks
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Progression	
K	Students learned to add and subtract within 10 and fluently add and subtract within 5.
1st Grade	Students will learn to add and subtract within 20 and fluently add and subtract within 10.
2 nd Grade	Students will extend their work in adding and subtracting within 100 and fluently add and subtract within 20.

STUDENT LEARNING GOALS

Mathematics Standards (*Appendices A & B*)

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.D.8: Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$, $5 = _ - 3$, $6 + 6 = _$.*

1.OA.B.3: Apply properties of operations as strategies to add and subtract.² *Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$, the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$. (Associative property of addition.)*

1.OA.D.7: Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.

(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>	21st Century Skills <i>(Appendix D)</i>	Addition Table Compose Decompose Doubles Doubles Plus 1	Equal Sign Is the same as Number Number Partners Number Sentence Zero
IS1. Information Strategies IS2. Information Use	TCS1. Use of Information TCS5. Problem Solving		

Enduring Understandings (MI p.1)		Essential Questions	
<ul style="list-style-type: none"> I can use doubles and doubles plus 1 to add. I can find number partners for 6 and 7. I can find number partners for 8 and 9. I can find number partners for 10. I can tell the meaning of the equal sign (=). I can tell if a number sentence is true or untrue. I can add numbers with totals to 10. 		<ul style="list-style-type: none"> How can you use doubles and doubles plus 1 to add? What are number partners? What is the meaning of the equal sign? How can you tell if a number sentence is true or untrue? 	
Assessment Plan			
Summative Assessment(s)/Performance Based Assessments including 21st Century Learning		Formative and Diagnostic Assessment(s)	
RCC Unit 2 Review, MI p.50-52 RCC Unit 2 Practice, PPS p.21-24		STAR Math Assessment (Fall) RCC Embedded Tasks and Assessments	
Learning Plan Components			
Text	Ready Common Core Mathematics Instruction 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8861-9		
Print	Ready Common Core Mathematics Teacher Resource Book 1, 2014, Curriculum Associates, ISBN: 978-0-7609-8857-2		
Electronic	www.teacher-toolbox.com www.stratfordmath.wikispaces.com www.xtramath.org		
Week 1	Students will: <ul style="list-style-type: none"> Relate an image of two equal groups to doubles. Relate an image of two equal groups with one left over as doubles plus 1. Write addition sentences for doubles and doubles plus 1. Use properties to write a doubles plus one expression (3 addends) as an expression with 2 addends. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 6:</u> Doubles and Doubles Plus 1 (TRB p.42-48)	<ul style="list-style-type: none"> *Double Up *Doubles Facts & Student Sheet *Cuisenaire Doubles & Student Sheet *Popsicle Addition *Double Plus One Game *Doubles Game Boards *Doubles Plus One Task Cards *Tuneful Addition *Doubles Song 	MI p.26-29 PPS p.15 *SF R, P, E & PS 3-6 *SF R, P, E & PS 3-7 *Buggy Over Doubles *Zigzag *Double Trouble *Scattered Skis	* RCC Interactive Lesson- Addition Facts Doubles * RCC Interactive Lesson- Addition Doubles Plus One or Minus One * Online Song: Addition Rock * Online Song: Doubles 1-5 & 6-10 * Online Game: Monkey Drive * Online Game: Doubles Plus 1

Week 2	Students will: <ul style="list-style-type: none"> • Develop fluency in addition and subtraction of sums for 6 and 7. • Model facts for 6 and 7 in a number bond. • Complete number sentences. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 7:</u> Number Partners for 6 and 7 (TRB p.49-55)	*Bert's Berry Pie *Domino Sums 6 & 7 *Flashcards 6 & 7	MI p.30-33 PPS p.16 *SF R, P, E & PS 1-1 *SF R, P, E & PS 1-2 *Acorns Aplenty *Monkeying Around *Who's Scared? *Treetop Totals *Oodles of Noodles	*RCC Interactive Lesson- Addition Facts *RCC Interactive Lesson- Addition Number Sentences *Online Game: Missing Addend *Online Game: Secret Number *Online Game: Make 6 & 7
Week 3	Students will: <ul style="list-style-type: none"> • Develop fluency in addition and subtraction of sums for 8 and 9. • Relate the operations of addition and subtraction through number bonds. • Recognize 0 as a number partner. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 8:</u> Number Partners for 8 & 9 (TRB p.56-62)	*Turn Around Trains & Student Sheet *Turn Around Dominoes & Student Sheet *Domino Sums 8 & 9 *Flashcards 8 & 9	MI p.34-37 PPS p.17 *SF R, P, E & PS 1-3 *Feathered Friend *Lovey and Leafy *Add a Little Color *Tulip Tiptoe	*RCC Interactive Lesson- Addition Facts *RCC Interactive Lesson- Addition Number Sentences *Online Song: Addition Properties *Turn Around Addition Song *Online Game: Make 8 & 9

Week 4	Students will: <ul style="list-style-type: none"> • Fluently add and subtract within 10. • Apply strategies to addition and subtraction of sums within 10. • Understand inverse operations as a tool for adding and subtracting.
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Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 9:</u> Number Partners for 10 (TRB p.63-69)	*Addition Chant *Make Ten *Make Ten on a Ten Frame & Student Sheet *Make Ten with Cuisenaire Rods & Student Sheet *Bingo within 20 Cards *Make 6-10 *Flashcards 10	MI p.38-41 PPS p.18 *SF R, P, E & PS 1-4 *SF R, P, E & PS 3-8 *Lots of Spots *Baskets of Berries *Busy Baker *Take a Seat *Snowed In *Family Buzz-ness *Time to go Shopping	*RCC Interactive Lesson- Addition Facts for 10 *RCC Interactive Lesson- Addition and Subtraction Fact Families Part 1 & 2 *Online Game: Monster School Bus *Online Song: What Makes Ten? *Online Game: Number Bonds to 10 *Online Game: Friends of Ten Online Song: Friends of Ten

Week 5	Students will: <ul style="list-style-type: none"> • Understand that the equal sign is used to indicate that one quantity is the same as another. • Match equivalent expressions. • Write and identify true and false number sentences. • Rewrite a false number sentence so that it is true.
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Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 10:</u> Understand the Equal Sign (TRB p.70-76)	*Valid Equalities *True or False *Equal Sums *True or False Equations	MI p.42-45 PPS p.19 *Are they Equal *Is the Equation True or False *Add and Subtract Equations	*RCC Interactive Lesson- Addition Facts *RCC Interactive Lesson- Addition Facts for 10 *Online Song: Equal Sign Song *Online Song: Equal Means the Same *Online Game: Comparison Signs *Online Game: Balance Equations

Week 6	Students will: <ul style="list-style-type: none"> • Fluently add and subtract within 10. • Use strategies such as counting on; using the relationship between addition and subtraction; and using a known sum or difference to find an unknown sum or difference to add and subtract. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 11:</u> Facts I Know (TRB p.77-83)	*Domino Addition & Recording Sheet *Math Fact Sort	MI p.46-49 PPS p.20 *Jungle Pals *Dragon's Math Castle *Tons of Fun *Favorite Leaves *A Beautiful Bunch	*RCC Interactive Lesson- Addition Facts Part 1 & 2 *RCC Interactive Lesson- Addition Facts for 10 *Online Game: Cone Crazy *Online Game: Drop Sum
Summative Assessment		Performance Task	
RCC Unit 2 Review -MI p. 50-52 -Scoring Guide (TRB p. 84-85)		RCC Unit 2 Practice -PPS p.21-24 -Rubric (Teacher-Toolbox)	