

Grade: 1 Unit: 3	Operations and Algebraic Thinking and Number and Operations in Base 10- Add and Subtract to 20	5 Weeks
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Progression

K	Students learned to work with numbers 11-19 to gain foundations for place value. They learned to add and subtract within 10.
1st Grade	Students will learn to add and subtract within 20 using the strategy: make ten. They will also extend their K work in understanding teen numbers.
2 nd Grade	Students will extend their work in adding and subtracting within 1000 and extend their place value understanding to build multi-digit numbers up to 1000.

STUDENT LEARNING GOALS

Mathematics Standards (*Appendices A & B*)

[1.NBT.B.2a](#): 10 can be thought of as a bundle of ten ones — called a "ten."

[1.NBT.B.2b](#): The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.

[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.2](#): Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

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

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

[MP6](#): Attend to Precision

<i>Interdisciplinary Standards</i>		<i>Key Vocabulary</i>	
Technology Integration (Appendix C)	21st Century Skills (Appendix D)	Associative Property of Addition Make a ten Teen Number Tens and Ones	
IS1. Information Strategies IS2. Information Use	TCS1. Use of Information TCS5. Problem Solving		

Enduring Understandings (MI p.1) <ul style="list-style-type: none"> • I can name and write teen numbers. • I can make totals greater than 10. • I can make a ten to add. • I can add three numbers. • I can make a ten to subtract. • I can solve addition and subtraction word problems. 		Essential Questions <ul style="list-style-type: none"> • What are teen numbers? • How can you make totals greater than 10? • How do you use the make ten strategy to add and subtract? • How do you add three numbers? • How can you solve word problems? 	
Assessment Plan			
Summative Assessment(s)/Performance Based Assessments including 21st Century Learning RCC Unit 3 Review, MI p.74-76 RCC Unit 3 Practice, PPS p.35-38		Formative and Diagnostic Assessment(s) 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"> Recognize that ten and ones and one ten represent the same quantity. Understand that numbers between 10 and 20 are composed of one ten and some ones. Model teen numbers. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 12:</u> *Understand Teen Numbers (TRB p.89-95) *EngageNY Lessons	*Large Teen Cards *Teen Posters Tens and Ones *Teen Numbers Matching Ten Frame *Teen Numbers Matching Word From *Teen Numbers Matching Teenagers *Teens on a Ten Frame Book *Tens and Ones with Unifix Cubes & Recording Sheet *Scoop and Build *Place Value	MI p.54-57 PPS p.29 *SF R, P, E & PS 7-1 * Breaking Apart Tens and Ones (Enrichment) *Teens Math Minute *Numbers 11-20 *Teen Totals *Teen Numbers *EngageNY Lessons 1-5	*RCC Interactive Lesson- Counting to 20 Part 1 & 2 *United streaming Video – The Number Crew: Tiling with Stile *United streaming Video – Numbers 0-20: Understand the Relationship Between Numbers and Quantities *Online Songs -Teen Number Song -Numbers in the Teens Versions 1 & 2 *Online Video- 11 & 12 * Online Game: Critter Junction * Online Game- Find the Number 10-20
Week 2	Students will: <ul style="list-style-type: none"> Find the partners of teen numbers. Recognize the different ways that numbers can be decomposed and composed. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 13:</u> *Understand Sums Greater than 10 (TRB p.96-102) *Engage NY Lessons	*Flash Cards 11-18 *Tiles to Glue on Teen WS *11-18 WS *Number Lines to 20 *Study Book	MI p.58-61 PPS p.30 *11-18 Partner WS *A Sticky Snack *Engage NY 1-6	*RCC Interactive Lesson- Addition Number Sentences *RCC Interactive Lesson- Relating Addition and Subtraction Facts *Online Game: Monkey Drive *Online Game: Catch the Stars

Week 3	Students will: <ul style="list-style-type: none"> • When adding two one-digit numbers, understand the rationale for decomposing one addend to make ten. • Use the strategy of making ten to add numbers within 20. • Use and articulate mental math strategies to add.
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Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 14:</u> *Make a Ten to Add (TRB p.103-109) *Engage NY Lessons	*Strategy Posters *Make a Ten Strategy for Addition Game (Use AS 11 and 2 sided chips) *Make Ten Flash Cards *Make a Ten with Flash Cards	MI p.62-65 PPS p.31 *SF R, P, E & PS 11-4 *Hands on Make a Ten to Add WS (Use AS 11) * Make a Ten to Add WS (Use AS 11) *The Bridge to Ten Strategy (2 Pages) *Bridging Scaffolding Sheets *Addition to make and add math facts strategy *Model Drawing Make Ten *Engage NY 1-9	*RCC Interactive Lesson- Addition Facts for Ten *RCC Interactive Lesson- Addition Facts: Using Sums of 10 *Online Video: Make a Ten to Add *Online Game: Bridging to 10 *Online Game: Ten Frame

Week 4	Students will: <ul style="list-style-type: none"> • Write addition expressions with three addends to represent word problems. • Find the total of three addends, using strategies such as making ten and using doubles. • Use the associative and commutative properties to group addends in order to find known sums.
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Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 15:</u> *Add Three Numbers (TRB p.110-116) *Engage NY Lessons	*Three Letter Addends & Recording Sheet *Adding Numbers Work Mat *Adding Mania	MI p.66-69 PPS p.32 *SF R, P, E & PS 11-6 *Adding Multiple Digits (enrichment) *Adding Three Numbers *Number Crunchers *Fun in The Sun *Batter Up *Engage NY 1 & 2	*RCC Interactive Lesson- Adding Three Numbers *RCC Interactive Lesson- Addition Facts for Ten *Online Game: Adding 3 Numbers *Online Game: Add it Up

Week 5	Students will: <ul style="list-style-type: none"> Recognize that ten numbers can be decomposed and composed to subtract. Us the “make a ten” strategy to subtract single-digit numbers from teen numbers. 		
Lessons	Tasks / Activities	Worksheets	Technology
<u>RCC Lesson 16:</u> *Make a Ten to Subtract (TRB p.117-123) *Engage NY Lessons	*Strategy Posters *Subtraction Strategy Poster, How To *Make Ten Flash Card Game	MI p.70-73 PPS p.33 *SF R, P, E & PS 11-11 *Creating Tens (enrichment) *Tang’s WS *Make a Ten Strategy *Make a Ten Practice WS with and without Counters *Make 10 Subtraction Packet *Show Time *It’s Cold Outside *Downhill Skiing *A Backward Bat *Model Drawing Make Ten *Engage NY 1-11	*RCC Interactive Lesson- Addition and Subtraction Fact Families Part 1 & 2 *RCC Interactive Lesson- Addition Facts: Using Sums of 10 *Online Video: Make a Ten to Subtract *Online Video: Mental Math Strategies: Break Down to Ten *Online Game: Decomposing Numbers
Summative Assessment		Performance Task	
RCC Unit 3 Review -MI p. 74-76 -Scoring Guide (TRB p. 124-125)		RCC Unit 3 Practice -PPS p.35-38 -Rubric (Teacher-Toolbox)	