	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and critique the reasoning of others.	6. Communicate mathematically and approach mathematical situations with precision.			
	7. Identify and utilize structure and patterns.				

Grade 2 Unit 1 Addition & Subtraction Within 20

Suggested dates of instruction <u>25 instructional days</u>

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
<u>Unit 1: Lessons 1 – 2</u>	Review the	Addends	1.ATO.3	RMB: 1EE – 1HH (Relate Addition & Subtraction)
2.ATO.2 Demonstrate	relationship	Commutative	1.ATO.4	
fluency with addition	between	Property	1.ATO.5	ME: pp. 1 – 16 (Lessons 1 & 2)
and related	addition and	Equation	1.ATO.6	
subtraction facts	subtraction	Math	1.ATO.8	T: 2nd Edition-Student Centered Math: Van De Walle
through 20.	equations	Mountain		Addition & Subtraction Problem Types Table 9.1, p. 128
	with	Partners		True or False 9.1, p. 134
	related facts	Total		Build It In Parts Equation 9.2, p.135
	through 10			Up and Down the Number Line 9.3, p. 136
	and then 20.			Navigating through Algebra: PreK-2:
				Colorful Combo, pp. 38-40
				Investigations (TERC): Putting Together and Taking Apart:
				<i>Close to 20,</i> pp. 193-194
				S: Mega Math: Country Countdown: Counting Critters Level I
				Link: Country Countdown: Counting Critters Level I
				Mega Math: Country Countdown: Counting Critters Level U
				Link: Country Countdown: Counting Critters Level U
				Soar to Success: Warm-up 14.10, 14.15
				Student Activity Book: pp. 1-6

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
				Homework and Remembering: pp.1-4
				itools: Math Mountains. Whiteboard. Counters
				Materials: Counters, Formative Assessment Check p. 8, Formative
				Assessment Check p. 14
<u>Unit 1: Lessons 3 – 5</u>	Use a make-a-	"Bundle of	1.ATO.3	RMB: 1HH – 1II: Make-a-Ten Strategy
2.ATO.2 Demonstrate	ten strategy	Ten"	1.ATO.4	
fluency with addition	to combine	Dime	1.ATO.5	ME: pp. 17 - 36
and related	two addends	Make-a-Ten	1.ATO.6	
subtraction facts	to total a teen	Strategy	1.ATO.8	T: 2nd Edition Student Centered Math: Van De Walle
through 20.	number	Penny		Ten Frame Flash Cards 8.15,p. 112
		Unknown		Build it in Parts 8.16, p.113
	Develop	Addend		Process for Basic Fact Mastery Figure 10.1, p. 156
	strategies to			Salute 10.2, p. 169
	solve for			Flash 10.4, p. 160
	missing			<i>Move It, Move It</i> 10.6, p. 161
	addends or			Missing Number Cards 10.13, p. 169
	subtrahends			Investigations (TERC): Putting Together and Taking Apart:
				Tens Go Fish, p. 193 (modify for advanced students)
				A New Type of Addition Problem, p. 30

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	4. Connect mathematical ideas and real-world situations through modeling.			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and critique the reasoning of others.	6. Communicate mathematically and approach mathematical situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
	Apply the			Navigating through Algebra PreK-2:
	relationship			Block Pounds: Solving for the Unknown, pp. 44-46
	between			
	addition and			S: Mega Math: Counting Critters Level Q
	subtraction			Link: Country Countdown: Counting Critters Level Q
				Mega Math: Numberopolis: Carnival Stories Level
				Link: Numberopolis: Carnival Stories Level N
				Soar to Success: Warm-up 10.20, 14.11
				Homework and Remembering: pp. 5-10
				Student Activity Book: pp. 13-16
				itools: Counters
				Materials: 100's Chart, Double Ten Frames, Counters, Blue Math
				Mountain Cards, Formative Assessment Check p. 20,
				Formative Assessment Check p. 28, Formative Assessment
				Check p. 34
Unit 1: Lesson 6	Identify	Addition		RMB: 1JJ (Even and Odd Numbers)
2.ATO.3 Determine	numbers as	Even		
whether a number	odd or even	Odd		ME: pp. 37-46 (Lesson 6)
through 20 is odd or		Pairs		
even using pairings of	Connect	Pattern		T: 2nd Edition Student Centered Math: Van De Walle

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
objects, counting by	"evenness"			Fair Shares for Two 13.12, p. 241
twos, or finding two	to being			Bumps and No Bumps 13.13 p. 242
equal addends to	divisible by			Elementary & Middle School Mathematics: Van De Walle
represent the number	two			Odd and Even Relationship., p. 266
(e.g., 3 + 3 = 6).				
	Skip counting			S: Mega Math: Numberopolis: Crosstown Numbers Line: Level L
	by twos			Link: Numberopolis: Cross Town Number Line Level L
				Soar to Success: Warm-up 27.11
				Student Activity Book: pp. 17-20
				Homework and Remembering: pp. 11-12
				IXL practice—Odd and Evens (A6 – A10)
				https://www.ixi.com/math/grade-2
				itools: Counters
				Materials: Connecting Cubes, Ten Frames, Formative Assessment
				Check p. 44
Unit 1: Lesson 7	Find totals	Addition	1.ATO.6	RMB: 1KK (Strategies using Doubles)
2.ATO.2 Demonstrate	using the	Doubles		
fluency with addition	Doubles	Doubles minus		ME: pp. 47 – 54 (Lesson 7)
and related	Plus/Doubles	1		

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
subtraction facts	Minus 1 or	Doubles minus		T: 2nd Edition Student Centered Math: Van De Walle
through 20.	the Doubles	2		Calculator Doubles 10.8, p. 162
	Plus/Minus 2	Doubles plus 1		Double Facts Figure 10.5, p.162
	strategies	Doubles plus 2		<i>On the Double</i> 10.9, p. 163
		Doubles		Elementary and Middle School Mathematics: Van De Walle
		Subtraction		Doubles and Near Doubles, pp. 139-140
		Doubles		
				S: Mega Math: Lesson7: Country Countdown: Level O
				Link: Country Countdown: Counting Critters Level O
				Soar to Success: Warm-up 10.18
				Student Activity Book: pp. 21-22
				Homework and Remembering: pp. 13-14
				Materials: Hundreds Chart, Ten Frames, Formative Assessment
				Check p. 52
Unit 1: Lesson 8	Write equation	Equal sign (=)	1.ATO.4	RMB: 1LL (Equations, Equation Chains, and Vertical Form)
2.ATO.2 Demonstrate	chains	Equation	1.ATO.7	
fluency with addition		Equation chain		ME: pp. 47 - 62 (Lesson 8)
and related	Write	ls equal to (=)		
	equations in	Is not equal to		

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
subtraction facts	vertical form	(≠)		T: 2nd Edition Teaching Student-Centered Math: Van De Walle
through 20.		Vertical form		Build it in Pats Equations 9.2, p.135
				Up and Down the Number Line 9.3, p.136
				Elementary and Middle School Mathematics: Van De Walle
				Part-Part-Whole Models, p. 151
				Fact Families for Addition and Subtraction, pp. 158-159
				S: Mega Math: Country Countdown: Block Busters, Level F
				Link: <u>Country Countdown: Block Busters Level F</u>
				Soar to Success: Warm-up 10.10
				Student Activity Book: pp. 23-24
				Homework and Remembering: pp. 15 - 16
				itools: Counters
				Materials: MathBoard Materials, Math Mountains, Balance Scale, Unifix Cubes, Symbol/Number Cards, Crayons, Formative Assessment Check p. 60
Unit 1: Lesson 9	Add three or	Addend	1.ATO.2	RMB: 1MM (Add Three or Four Addends)
2.ATO.2 Demonstrate	four 1-digit	Sum	1.ATO.3	
fluency with addition	addends using			ME: pp. 63 - 76 (Lesson 9)

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
and related	strategies			
subtraction facts	based on			T: 2nd Edition Teaching Student-Centered Math: Van De Walle
through 20.	properties of			Children's Addition Strategies Figure 9.1 p. 128
2.NSBT.6 Add up to	addition.			More than Two Addends 9.5, p.139
four two-digit				Navigating through Algebra PreK-2:
numbers using	Apply			<i>How Far</i> , pp. 50-52
strategies based on	Commutative			Spin Once, Spin Twice, pp. 62-64
knowledge of place	and			
value and properties	Associative			S: Mega Math: Numberopolis: Carnival Stories, Level H
of operations.	properties to			Link: Numberopolis: Carnival Stories Level H
	solve			Soar to Success: Warm-up 10.24
	problems			Student Activity Book: pp. 25-28
	with three or			Homework and Remembering: pp. 17-18
	four 1-digit			
	addends			itools: Counters
				Materials: MathBoard Materials, Formative Assessment Check p. 24,
				Unit 1 Quick Quiz, Fluency Check 1
Unit 1: Lessons 10 - 13	Represent and	Add To	1.ATO.1	RMB: 1NN ("Add To" and "Take From" Word Problems)
2.ATO.1 Solve one-	solve "add to"	problem	1.ATO.2	
and two-step real-	and "take			ME: pp. 71 – 98 (Lessons 10 – 13)

 RMB: Research and Math Background
 ME: Math Expressions
 T: Teacher
 S: Student
 Image: Comparison of the students

 Property of Richland County School District One
 Image: Comparison of the students
 Image: Comparison of the students
 Fall 2015

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
world/story problems	from" word	Put Together		
using addition (as a	problems	or Take		T: 2nd Edition Teaching Student-Centered Math: Van De Walle
joining action and as a		Apart		Children's Addition Strategies Figure 9.1 p. 128
part-part-whole	Create and	Problem		Putting Together and Taking Apart: Investigations (TERC)
action) and	solve "Add	Situation		Introducing Notation, p. 35
subtraction (as a	To" and "Take	equation		Story Problems, pp. 149-156
separation action,	From" word	Solution		Navigating Through Algebra PreK-2:
finding parts of the	problems	equation		Math Machines, pp. 69-70
whole, and as a		Take From		
comparison) through	Solve	problem		S: Mega Math: Numberopolis: Carnival Stories, Level J
99 with unknowns in	mathematical			Link: <u>Numberopolis: Carnival Stories Level J</u>
all positions.	situations			Mega Math: Numberopolis: Carnival Stores, Level M
2.ATO.2 Demonstrate	with			Link: Numberopolis: Carnival Stories Level M
fluency with addition	unknowns in			Soar to Success: Warm-up 10.10, 10.17
and related	all positions			Student Activity Book: pp. 29 - 38
subtraction facts				Homework and Remembering: pp. 19 -26
through 20.				
				itools: Whiteboard
				Materials: MathBoard Materials, Formative Assessment Check p.
				74, Formative Assessment Check p. 82; Formative
				Assessment Check p. 88; Formative Assessment Check p. 96

ME: Math Expressions T: Teacher ©Cannot be reproduced without permission

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
Unit 1: Lessons 14 - 18	Represent and	Compare	1.ATO.1	RMB: 1PP (Compare Word Problems)
2.ATO.1 Solve one-	Solve	Comparison		1QQ (Find Appropriate Information in Word Problems)
and two-step real-	"compare"	bars		
world/story problems	word	Extra		ME: pp. 99 - 132
using addition (as a	problems	information		
joining action and as a		Fewer		T: 2nd Edition Teaching Student-Centered Math: Van De Walle
part-part-whole	Create,	Hidden		Children's Addition Strategies Figure 9.1 p. 128
action) and	paraphrase,	information		Comparison Model pp. 137-138
subtraction (as a	and solve	Matching		Models for Difference Between 8 and 5, p. 138
separation action,	"compare"	drawing		More than Two Addend 9.5, pp. 139
finding parts of the	word	More		Investigations (TERC): Putting Together and Taking Apart
whole, and as a	problems	Situation		A New Type of Addition Problem, p. 30
comparison) through		equation		Illuminations Lesson: Web Lesson: Comparing Sets
99 with unknowns in	Apply	Solution		http://illuminations.nctm.org/Lesson.aspx?id=315
all positions.	strategies	equation		
2.ATO.2 Demonstrate	(such as			S: Mega Math: Numberopolis: Carnival Stories Level I
fluency with addition	make-a-ten)			Link: Numberopolis: Carnival Stories Level I
and related	to solve for			Mega Math: Numberopolis: Carnival Stories Level L
subtraction facts	unknowns in			Link: Numberopolis: Carnival Stories Level L
through 20.	real world			Mega Math: Numberopolis: Carnival Stories Level M
	problem			Link: Numberopolis: Carnival Stories Level M
	situations			Mega Math: Numberopolis: Carnival Stories Level O

ME: Math Expressions T: Teacher ©Cannot be reproduced without permission

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
				Link: <u>Numberopolis Carnival Stories Level O</u> Soar to Success: Warm-up 10.17, 11.11, 11.17, 13.5 Student Activity Book: pp. 39 – 52 Homework and Remembering: pp. 27 34 itools: Whiteboard
				Materials: MathBoard Materials, Unifix Cubes, 100's Chart, Formative Assessment Check p. 102, Formative Assessment Check p. 108, Formative Assessment Check p. 124
Unit 1: Lessons 19 - 20 2.ATO.1 Solve one- and two-step real- world/story problems	Solve two-step word problems	pattern	1.ATO.1	RMB: 1RR (Mathematical Practices)ME: pp. 133 - 146 (Lessons 19 - 21)
using addition (as a joining action and as a part-part-whole				T: Elementary and Middle School Mathematics: Van De Walle Two-Step Problems, pp. 163 - 164
action) and subtraction (as a separation action, finding parts of the				S: Mega Math: Numberopolis: Carnival Stories Level J Link: <u>Numberopolis: Carnival Stories Level J</u> Soar to Success: Warm-up 13.5 Student Activity Book: pp. 55 - 64

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
whole, and as a comparison) through 99 with unknowns in all positions.				Homework and Remembering: pp. 37 - 40 Materials: Blue Make-Ten Cards, MathBoard Materials, Formative Assessment Check p. 138, Formative Assessment Check p.
2.ATO.2 Demonstrate fluency with addition and related subtraction facts through 20.				144
Unit 1: Lesson 21 2.ATO.1 Solve one- and two-step real- world/story problems	Apply Mathematical Process Standards to	Pattern	1.ATO.1	RMB: 1RR – 1SS (Focus on Mathematical Practices)ME: pp. 147 - 152 (Lesson 20)
using addition (as a joining action and as a part-part-whole action) and subtraction (as a	solve problems			S: Mega Math: Numberopolis: Carnival Stories Level J Link: <u>Numberopolis: Carnival Stories Level J</u> Soar to Success: Warm-up 13.5 Student Activity Book: pp. 65 - 66 Homework and Remembering: pp. 41 – 42
separation action, finding parts of the whole, and as a				Materials: MathBoard Materials Quick Quiz 3, Fluency Check 3

	South Carolina College-and Career-Ready Mathematics Process Standards				
1.	Make sense of problems and persevere in solving them.	 Connect mathematical ideas and real-world situations through modeling. 			
2.	Reason both conceptually and abstractly.	5. Use a variety of mathematical tools effectively and strategically.			
3.	Use critical thinking skills to justify mathematical reasoning and	6. Communicate mathematically and approach mathematical			
	critique the reasoning of others.	situations with precision.			
	7. Identify and utilize structure and patterns.				

Standard	Focus	Vocabulary	Supporting Standard(s)	Resources
comparison) through				End of Unit Review & Test:
99 with unknowns in				ME: pp. 153 - 158
all positions.				Student Activity Book: 67 - 70
2.ATO.2 Demonstrate				ME Performance Task:
fluency with addition				https://www-
and related				k6.thinkcentral.com/content/hsp/math/hspmathmx/na/gr2/perfor
subtraction facts				mance task 9780544586246 /pdf/unit1.pdf
through 20.				