## Grade 2 Mathematics Teacher Planning Guide

 Based on 60 Minutes of Instruction Daily
## South Carolina College-and Career-Ready Mathematics Process Standards

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

Grade 2 Unit 1 Addition \& Subtraction Within 20


## Grade 2 Mathematics Teacher Planning Guide

Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards



| Standard | Focus | Vocabulary | Supporting <br> Standard(s) | Resources |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Homework and Remembering: pp.1-4 <br> itools: Math Mountains, Whiteboard, Counters <br> Materials: Counters, Formative Assessment Check p. 8, Formative Assessment Check p. 14 |
| Unit 1: Lessons 3-5 <br> 2.ATO. 2 Demonstrate fluency with addition and related subtraction facts through 20. | Use a make-aten strategy to combine two addends to total a teen number <br> Develop strategies to solve for missing addends or subtrahends | "Bundle of Ten" <br> Dime <br> Make-a-Ten Strategy Penny Unknown Addend | 1.ATO. 3 <br> 1.ATO. 4 <br> 1.ATO. 5 <br> 1.ATO. 6 <br> 1.ATO. 8 | RMB: 1HH - 1II: Make-a-Ten Strategy <br> ME: pp. 17-36 <br> T: 2nd Edition Student Centered Math: Van De Walle <br> Ten Frame Flash Cards 8.15, p. 112 <br> Build it in Parts 8.16, p. 113 <br> Process for Basic Fact Mastery Figure 10.1, p. 156 <br> Salute 10.2, p. 169 <br> Flash 10.4, p. 160 <br> Move It, Move It 10.6, p. 161 <br> Missing Number Cards 10.13, p. 169 <br> Investigations (TERC): Putting Together and Taking Apart: <br> Tens Go Fish, p. 193 (modify for advanced students) A New Type of Addition Problem, p. 30 |
| RMB: Research and Math Background Property of Richland County School District O |  | ME: Math Expressions T: Tea |  | S: Student Ter <br> Curriculum And Instruction Fall 2015 |

## Grade 2 Mathematics Teacher Planning Guide

Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards



| Standard | Focus | Vocabulary | Supporting <br> Standard(s) |
| :--- | :--- | :--- | :--- |
|  | Apply the <br> relationship <br> between <br> addition and <br> subtraction |  | Navigating through Algebra PreK-2: <br> Block Pounds: Solving for the Unknown, pp. 44-46 |
|  |  |  | S: Mega Math: Counting Critters Level Q <br> Link: Country Countdown: Counting Critters Level $Q$ <br> Mega |
| Link: Numberopolis: Carnival Stories Level $N$ |  |  |  |

RMB: Research and Math Background ME: Math Expressions T: Teacher S: Student Technology for students

## Grade 2 Mathematics Teacher Planning Guide

Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards




## Grade 2 Mathematics Teacher Planning Guide

## Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards



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

RMB: Research and Math Background ME: Math Expressions

## Grade 2 Mathematics Teacher Planning Guide

Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards



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

RMB: Research and Math Background ME: Math Expressions

T: Teacher S: Student

Technology for students
Property of Richland County School District One
©Cannot be reproduced without permission
Curriculum And Instruction

## Grade 2 Mathematics Teacher Planning Guide

## Based on 60 Minutes of Instruction Daily

## South Carolina College-and Career-Ready Mathematics Process Standards


7. Identify and utilize structure and patterns.

| Standard | Focus | Vocabulary | Supporting <br> Standard(s) | Resources |
| :---: | :---: | :---: | :---: | :---: |
| and related subtraction facts through 20. <br> 2.NSBT. 6 Add up to four two-digit numbers using strategies based on knowledge of place value and properties of operations. | strategies based on properties of addition. <br> Apply Commutative and Associative properties to solve problems with three or four 1-digit addends |  |  | T: 2nd Edition Teaching Student-Centered Math: Van De Walle <br> Children's Addition Strategies Figure 9.1 p. 128 <br> More than Two Addends 9.5, p. 139 <br> Navigating through Algebra PreK-2: <br> How Far, pp. 50-52 <br> Spin Once, Spin Twice, pp. 62-64 <br> S: Mega Math: Numberopolis: Carnival Stories, Level H <br> Link: Numberopolis: Carnival Stories Level H <br> Soar to Success: Warm-up 10.24 <br> Student Activity Book: pp. 25-28 <br> Homework and Remembering: pp. 17-18 <br> itools: Counters <br> Materials: MathBoard Materials, Formative Assessment Check p. 24, Unit 1 Quick Quiz, Fluency Check 1 |
| Unit 1: Lessons 10-13 <br> 2.ATO. 1 Solve oneand two-step real- | Represent and solve "add to" and "take | Add To problem | $\begin{aligned} & \text { 1.ATO. } 1 \\ & \text { 1.ATO.2 } \end{aligned}$ | RMB: 1NN ("Add To" and "Take From" Word Problems) <br> ME: pp. 71-98 (Lessons 10-13) |
| RMB: Research and Math Background Property of Richland County School District |  | $\begin{aligned} & \text { ME: Math Expre } \\ & \text { Dne } \quad \text { OCa } \end{aligned}$ | T: Tea be reproduced | S: Student $\underset{\text { Curriculum And Instruction }}{\text { Technology for students }} \underset{\text { Fall } 2015}{\text { St }}$ |

## Grade 2 Mathematics Teacher Planning Guide

 Based on 60 Minutes of Instruction Daily
## South Carolina College-and Career-Ready Mathematics Process Standards


4. Connect mathematical ideas and real-world situations through modeling.
5. Use a variety of mathematical tools effectively and strategically.
6. Communicate mathematically and approach mathematical situations with precision.
7. Identify and utilize structure and patterns.

| Standard | Focus | Vocabulary | Supporting <br> Standard(s) | Resources |
| :---: | :---: | :---: | :---: | :---: |
| world/story problems using addition (as a joining action and as a part-part-whole action) and subtraction (as a separation action, finding parts of the whole, and as a comparison) through 99 with unknowns in all positions. <br> 2.ATO. 2 Demonstrate fluency with addition and related subtraction facts through 20. | from" word problems <br> Create and solve "Add To" and "Take From" word problems <br> Solve mathematical situations with unknowns in all positions | Put Together or Take Apart Problem <br> Situation equation <br> Solution equation <br> Take From problem |  | T: 2nd Edition Teaching Student-Centered Math: Van De Walle <br> Children's Addition Strategies Figure 9.1 p. 128 <br> Putting Together and Taking Apart: Investigations (TERC) <br> Introducing Notation, p. 35 <br> Story Problems, pp. 149-156 <br> Navigating Through Algebra PreK-2: <br> Math Machines, pp. 69-70 <br> S: Mega Math: Numberopolis: Carnival Stories, Level J <br> Link: Numberopolis: Carnival Stories Level J <br> Mega Math: Numberopolis: Carnival Stores, Level M <br> Link: Numberopolis: Carnival Stories Level M <br> Soar to Success: Warm-up 10.10, 10.17 <br> Student Activity Book: pp. 29-38 <br> Homework and Remembering: pp. 19-26 <br> itools: Whiteboard <br> Materials: MathBoard Materials, Formative Assessment Check p. <br> 74, Formative Assessment Check p. 82; Formative <br> Assessment Check p. 88; Formative Assessment Check p. 96 |
| RMB: Research and Math Background Property of Richland County School District On |  | ME: Math Expres | T:Tea <br> t be reproduced | S: Student $\underset{\text { Curriculum And Instruction }}{\text { Technology for students }} \underset{\text { Fall } 2015}{\text { 2015 }}$ |

## Grade 2 Mathematics Teacher Planning Guide

 Based on 60 Minutes of Instruction Daily
## South Carolina College-and Career-Ready Mathematics Process Standards

| 1. | Make sense of problems and persevere in solving them. | 4. |
| :--- | :--- | :--- |
| 2. | Reason both conceptually and abstractly. | 5. |
| 3. | Use critical thinking skills to justify mathematical reasoning and <br> critique the reasoning of others. | 6. |

4. Connect mathematical ideas and real-world situations through modeling.
5. Use a variety of mathematical tools effectively and strategically.
6. Communicate mathematically and approach mathematical situations with precision.
7. Identify and utilize structure and patterns.

| Standard | Focus | Vocabulary | Supporting Standard(s) | Resources |
| :---: | :---: | :---: | :---: | :---: |
| Unit 1: Lessons 14-18 <br> 2.ATO. 1 Solve oneand two-step realworld/story problems using addition (as a joining action and as a part-part-whole action) and subtraction (as a separation action, finding parts of the whole, and as a comparison) through 99 with unknowns in all positions. <br> 2.ATO. 2 Demonstrate fluency with addition and related subtraction facts through 20. | Represent and Solve <br> "compare" word problems <br> Create, paraphrase, and solve <br> "compare" word problems <br> Apply strategies (such as make-a-ten) to solve for unknowns in real world problem situations | Compare <br> Comparison <br> bars <br> Extra information <br> Fewer <br> Hidden information <br> Matching drawing <br> More <br> Situation equation Solution equation | 1.ATO. 1 | RMB: 1PP (Compare Word Problems) <br> 1QQ (Find Appropriate Information in Word Problems) <br> ME: pp. 99-132 <br> T: 2nd Edition Teaching Student-Centered Math: Van De Walle <br> Children's Addition Strategies Figure 9.1 p. 128 <br> Comparison Model pp. 137-138 <br> Models for Difference Between 8 and 5, p. 138 <br> More than Two Addend 9.5, pp. 139 <br> Investigations (TERC): Putting Together and Taking Apart <br> A New Type of Addition Problem, p. 30 <br> Illuminations Lesson: Web Lesson: Comparing Sets <br> http://illuminations.nctm.org/Lesson.aspx?id=315 <br> S: Mega Math: Numberopolis: Carnival Stories Level I <br> Link: Numberopolis: Carnival Stories Level I <br> Mega Math: Numberopolis: Carnival Stories Level L <br> Link: Numberopolis: Carnival Stories Level L <br> Mega Math: Numberopolis: Carnival Stories Level M <br> Link: Numberopolis: Carnival Stories Level M <br> Mega Math: Numberopolis: Carnival Stories Level O |
| RMB: Research and Math Background Property of Richland County School District |  | ME: Math Express | T: Tea <br> $t$ be reproduced | S: Student $\underset{\text { Curriculum And Instruction }}{\text { Technology for students }} \underset{\text { Fall } 2015}{\text { Ther }}$ |

## Grade 2 Mathematics Teacher Planning Guide

Based on 60 Minutes of Instruction Daily

## 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 <br> 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 <br> critique the reasoning of others. | 6. Communicate mathematically and approach mathematical <br> situations with precision. |  |
| 7. Identify and utilize structure and patterns. |  |  |


| Standard | Focus | Vocabulary | Supporting <br> Standard(s) | Resources |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Link: Numberopolis Carnival Stories Level O <br> Soar to Success: Warm-up 10.17, 11.11, 11.17, 13.5 <br> Student Activity Book: pp. 39-52 <br> Homework and Remembering: pp. 2734 <br> itools: Whiteboard <br> 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 <br> 2.ATO.1 Solve oneand two-step realworld/story problems using addition (as a joining action and as a part-part-whole action) and subtraction (as a separation action, finding parts of the | Solve two-step word problems | pattern | 1.ATO. 1 | RMB: 1RR (Mathematical Practices) <br> ME: pp. 133-146 (Lessons 19-21) <br> T: Elementary and Middle School Mathematics: Van De Walle <br> Two-Step Problems, pp. 163-164 <br> S: Mega Math: Numberopolis: Carnival Stories Level J <br> Link: Numberopolis: Carnival Stories Level J <br> Soar to Success: Warm-up 13.5 <br> Student Activity Book: pp. 55-64 |
| RMB: Research and Math Background Property of Richland County School District O |  | ME: Math Expressions T: Teacher |  | S: Student Curriculum And Instruction $\underset{\text { Fall } 2015}{ }$ |

## Grade 2 Mathematics Teacher Planning Guide

 Based on 60 Minutes of Instruction Daily
## South Carolina College-and Career-Ready Mathematics Process Standards



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

## Grade 2 Mathematics Teacher Planning Guide <br> Based on 60 Minutes of Instruction Daily

## 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 <br> 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 <br> critique the reasoning of others. | 6. Communicate mathematically and approach mathematical <br> situations with precision. |  |
| 7. Identify and utilize structure and patterns. |  |  |


| Standard | Focus | Vocabulary | Supporting <br> Standard(s) |
| :--- | :--- | :--- | :--- |
| comparison) through <br> 99 with unknowns in <br> all positions. <br> 2.ATO.2 Demonstrate <br> fluency with addition <br> and related <br> subtraction facts <br> through 20. |  |  | End of Unit Review \& Test: <br> ME: pp. 153-158 |
|  |  |  | Student Activity Book: 67-70 <br> ME Performance Task: |

