

## Grade 2

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| <b>Unit</b><br><br>3.4 | <b>Unit Title</b><br><b>Fluently Using Mental Math Strategies within 20</b> | <b>Lesson</b><br><br>1 of 1 | <b>Day</b><br><br>5 |
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### Lesson Focus

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| <b>1. Standards Addressed</b>   | <b>2. Content to be Learned</b>   | <b>3. Mathematical Practices</b>  | <b>4. Essential Question</b>   |
| <p><b>2.OA.2</b> Fluently add and subtract within 20 using mental math strategies.<sup>2</sup> By the end of grade 2, know from memory all sums of two one-digit numbers.</p> <p><sup>2</sup> See standards 1.OA.6 for a list of mental strategies. Listed under Content to be Learned.</p> | <ul style="list-style-type: none"> <li>•Use mental strategies (<i>counting on, making ten, decomposing a number leading to a 10, relationship between addition and subtraction, creating equivalent but easier or known sums</i>) to add and subtract within 20.</li> <li>•Know from memory all the sums of two one-digit numbers.</li> </ul> | <p><b>SMP2</b> Reason abstractly and quantitatively.</p> <p><b>SMP7</b> Look for and make use of structure.</p>   | <ul style="list-style-type: none"> <li>•What strategy did you use to add those two numbers? Explain your mathematical thinking.</li> <li>•How can you use the addition or subtraction facts you know to help you solve the facts you do not know?</li> </ul>   |
| <b>5. Prerequisite Knowledge</b>  | <b>6. Essential Vocabulary</b>  | <b>7. Possible Misconceptions</b>   | <b>8. Necessary Materials</b>  |
| Add and subtract within 20 using mental math strategies.  |   | <p><b>NOTE for teachers:</b><br/><i>Though this is the last time this standard is formally addressed, teachers will need to continuously refer to this standard to insure that <b>all</b> students by the <b>end of second grade</b> know from memory <b>all sums</b> of two one-digit numbers.</i></p> | <p><b>OnCore</b> and <b>Investigations</b> materials were used Q1 Unit 1.1.</p> <p><b>K-5 Math Resources</b><br/> <a href="#">Magic Triangles</a><br/> <a href="#">Magic Square</a><br/> <a href="#">Fact Family House</a>□<br/> <a href="#">Eleven More</a><br/> <a href="#">Number Relationship Mat</a><br/>           To create addition and subtraction assessment worksheets see:<br/> <a href="http://www.math-aides.com">www.math-aides.com</a></p> |

### Instruction

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| <b>9. Instruction Practices (What are the teachers doing)</b>  | <b>10. Learning Practices (What are the students doing)</b>   |
| Teachers will guide students to use mental strategies to add and subtract within 20. They will use the K-5 Math Resources as a tool for students to practice these strategies. Teachers will use formative assessment or create assessment worksheets to determine which students and what addition and subtraction facts they now know from memory. Though this is the last time this standard is addressed, teachers will need to continuously refer to this standard to insure that <b>all</b> students by the end of second grade know from memory <b>all sums</b> of two one-digit numbers. | Students will practice and use many different mental math strategies to add and subtract within 20. By the end of grade 2, they will know from memory all sums of two on-digit numbers. Some students may have already mastered this standard 😊 |