**Standard(s):**

**MACC.2.NBT.2.9** Explain why addition and subtraction strategies work, using place value and the properties of operations.

**Related Standards:**

**MACC.2.NBT.2.6:** Add up to four two-digit numbers using strategies based on place value and properties of operations.

**MACC.2.NBT.2.5** Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

**Cognitive Complexity:** **MACC.2.NBT.2.9:** Level 3: Strategic Thinking & Complex Reasoning

<table>
<thead>
<tr>
<th>Standard Clarifications/Assessment Limits:</th>
<th>Students will…</th>
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<tbody>
<tr>
<td>• demonstrate their understanding of performing addition and subtraction, and explain the strategy they used and why it works.</td>
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<tr>
<td>• use their knowledge of fluency facts for addition and subtraction to add and subtract one-and two-digit whole numbers.</td>
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<tr>
<td>• identify and use pictorial representations and models in conjunction with problem solving strategies to add and subtract up to three-digit whole numbers within 1,000</td>
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<tr>
<td>• apply place value understanding to add or subtract the same place values and compose or decompose hundreds, tens, and ones appropriately.</td>
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<tr>
<td>• use the properties of operations, such as the Commutative property, and/or the relationship between addition and subtraction to solve problems.</td>
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4 The student will be able to:

• Generalize the addition strategies used for up to 4-digit to add larger than 4-digits.

3 The student will be able to:

• Add up to four two-digit numbers and explain the strategy used and why it works.
• Subtract two-digit numbers and explain the strategy used and why it works.

2 The student will be able to:

• Use the properties of operations, such as the Commutative Property, and/or the relationship between addition and subtraction to solve problems.
• Apply place value understanding to add and subtract the same place values.
• Use knowledge of fluency facts to add and subtract two digit numbers.

1 The student will be able to **recognize** the meaning of specific vocabulary, including:

• sum, addend, tens, ones, regroup, hundred, difference, subtract, digit

The student will be able to:

• Fluently add and subtract within 100.
• Use manipulatives and/or pictorial representations to add and subtract up to 3-digit whole numbers with 1,000.