



GPS Unit/Lesson Plan

Standard(s): M2N2

Students will build fluency with multi-digit addition and subtraction.

- a. Correctly add and subtract two whole numbers up to three digits each with regrouping.
- b. Understand and use the inverse relation between addition and subtraction to solve problems and check solutions.
- c. Use mental math strategies such as benchmark numbers to solve problems.
- d. Use basic properties of addition (commutative, associative, and identity) to simplify problems (e.g., $98 + 17$ by taking two from 17 and adding it to the 98 to make 100 and replacing the original problem by the sum $100 + 15$).
- e. Estimate to determine if solutions are reasonable for addition and subtraction.

Enduring Understanding(s):

Students will understand that ...

- how to add and subtract with regrouping
- how to add and subtract whole numbers up to 3 digits with regrouping.
- regrouping is needed in addition when the sum is more than 9 and in subtraction when the greater number is on bottom.
- inverse operations will solve and check problems.
- benchmark numbers assist with mental math.
- estimation helps to check for reasonable answers.

Essential Question(s):

1. How do you know when to regroup when adding and subtracting?
2. Why do I have to regroup?
3. Why is it important to know how to regroup when adding and subtracting?
4. If I have to regroup and I don't, what could possibly happen?
5. Why is it important to know the addition/subtraction facts to solve regrouping problems?

M2N2 continued

<p>Students will know:</p> <ul style="list-style-type: none">• apply rules for regrouping .• key vocabulary.• addition facts• subtraction facts• place value• rounding to the nearest 10• 10 ones can be regrouped as one ten.	<p>Students will be able to:</p> <ul style="list-style-type: none">• solve, and show.• describe, demonstrate, model adding and subtracting with regrouping.• demonstrate computation skills with regrouping.										
<p>Performance Tasks for Assessment:</p> <ul style="list-style-type: none">• model regrouping problem with base 10 blocks. <p>Assessment <u>for</u> learning & Assessment <u>of</u> learning</p>	<p>Other Evidence:</p> <p>Assessment <u>for</u> learning & Assessment <u>of</u> learning</p>										
<p>Learning Activities:</p>	<p>Key Vocabulary:</p> <table><tr><td>addition</td><td>subtraction</td></tr><tr><td>mental math</td><td>sum</td></tr><tr><td>regrouping</td><td>greater than</td></tr><tr><td>less than</td><td>estimate</td></tr><tr><td>difference</td><td></td></tr></table> <p>If Learning Does Not Occur:</p> <p>BBB – If it’s bigger on the bottom you have to borrow.</p>	addition	subtraction	mental math	sum	regrouping	greater than	less than	estimate	difference	
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