Date: 2/18
Standards:
1.NBT.B. 2 Understand that the two digits of a two-digit number represent amounts of tens and ones.
1.NBT.C. 4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models of drawings and strategies based on place value, properties of operations; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.
1.NBT.C. 5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used

Standard for Mathematical Practice:
SMP4: Model with Mathematics
SMP5: Use appropriate tools strategically.
SMP7: Look for and make use of structure (place value).
SMP8: Look for and express regularity in repeated reasoning (pattern in adding multiples of 10).
K: Place value
Value vs. digits
Tens \& ones
Expanded form
U: Students will understand that only like things can be added (tens+tens, ones+ones)
Students will understand that numbers can be broken apart to make addition more clear:28+12 = $28+10+2$

Students will understand that different strategies can be used to solve the same problem

D: The students will be able to verbally explain how they solved a 2-digit addition problem
The students will be able to model strategies to solve a 2-digit addition problem
The students will be able to show the role of place value in 2-digit addition (tens+tens, ones+ones)

Whole Class:

1. Review tally method of addition of 2 digit numbers with Base 10 blocks.
2. Have students take turns modeling both magnetic base 10 and tally marks.

Small Group MATH Rotations:
M - Math Games - Dice Roll Addition - Use 2-10 sided dice (0-9) and 1 place value dice (with numbers 10, 20, 30 etc.. - these can also be made with different numbers to accommodate different levels). Roll 2 dice to make a 2 digit number, then roll the place value dice to make the second number to add. Choose strategy to solve (100 board, Jump Method, Base 10 or Tally). Record on paper.

A - All By Myself - Four Square Strategies for Addition page - Differentiation by readiness and interest.
$\mathbf{T}$ - Teacher Time - Differentiated instruction (based on learning profiles) with Base 10 blocks or offer use of other manipulative - KP tenframes, paper, etc... to help those who may struggle with base 10 .
$\mathbf{H}$ - Hmmmm..- Magic 9 squares - 2 digit numbers and multiples of 10s. Different versions (levels) allow for differing levels of ability.

Formative Assessment/ Check for Understanding: Four Square Strategies for Addition page
Closure and beginning summative assessment: Students explain how to add 2 two-digit numbers being sure to include the words "tens" and "ones" in their explanation. They will have the choice of:

- Verbal or written (one or two sentences) explanation
- Drawing a picture
- Using a model

