Grade Level/Course:
1st grade- 2nd grade

Lesson/Unit Plan Name:
Adding and Subtracting within 100

Rationale/Lesson Abstract:
Students use number lines, decomposition and subtract within 20. Once they have experience and understanding with smaller numbers, they can use all the same strategies to add within 100.

Timeframe:
3-

8 + 3 =	11 - 3 =
7 + 8 =	15 - 7 =
8 + 9 =	17 - 9 =
5 + 8 =	13 - 5 =

Go through the same process with equations adding with 7. How many do they need to make a 10 each time they add with 7? *They will always be moving 3 from the other addend to make a 10 with 7.*

When doing subtraction, students decompose to subtract back to 10.

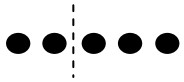
6 + 7 =	13 - 6 =
7 + 7 =	14 - 7 =
7 + 5 =	12 - 5 =
4 + 7 =	11 - 4 =

Alternate practice:

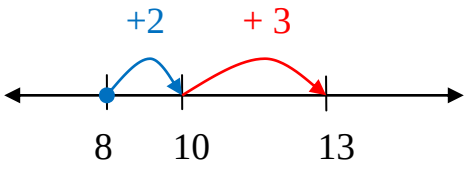
Pair students up and give each one a different colored pencil. The partners will work together to find the sum. Use some of the equations above and have each student take turns jumping on the number line to add using their own colored pencil. Students may use the Make a Ten strategy to help solve. However, students can make any sized jumps they would like.

Example:

8 + 5 =

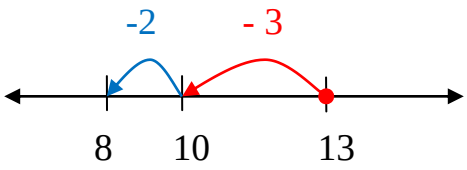


2 and 3



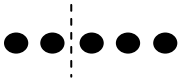
8 + 2 + 3 = 13

10 + 3 = 13



8 + 5 = 13

13 5 =



2 and 3

13 3 = 10

10 2 = 8

13 – 5 = 8

Teacher Model: Adding with Tens

10 + 3

Show students how to add 25 + 13 on a number line a few different ways so they understand they can arrive at the same answer several ways.

Guided Practice and You Try:
Have students choose one addend to decompose and add on the number line.

13 + 22 = 26 + 12 =

17 + 21 = 23 + 15 =

Alternate Practice:
Students should work in partners. Each partner has a different colored pencil. Use practice sheet at the end of the lesson.

Example: 14 + 24 =

Partner A decomposes: 14 = 10 + 4

Partner B begins the first jump on the number line (**+ 10**)
Partner A adds to next jump (**+ 4**)

PartnersT/F3 1662.5897.55 662.58 reW* nBT/F3 12 Tf1 0 0 1 74.8ETQBT 0 0 1 74.825 220TQ69.425

Adding with Tens

34 + 20 =

12 + 30 =

40 + 28 =

Adding 2 Digit Numbers:

16 + 23 =

27 + 11 =

24 + 16 =