(Simple to Complex

Fingers



Simple- Counting with the first finger (ex. 1, 2, 3, 4, 5)

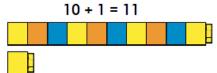
Complex- I know that I have five fingers, so one more makes six.

Counters



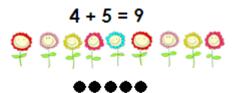
1 + 3 = 4

<u>Simple</u>- Using cubes or actual items to represent or act out problem.



<u>Complex</u>- Creating "sticks of ten" or organizing counters to help solve the problem

Pictures



Simple- Drawing of the actual item

Complex- Using dot patterns with organizations of ten

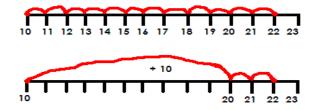
Tally Marks



<u>Simple</u>- Adding two numbers that are represented by tally marks.

Complex- Building from the greater number

Number Line



Simple- Adding by ones

Complex- Adding ten and then adding by ones

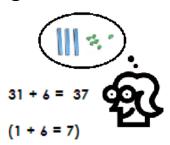
100 Chart



Simple- Adding by ones

<u>Complex</u>- Adding ten and then adding by ones

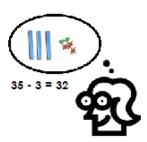
Counting Forward



Simple- Adding by ones

Complex- Adding tens and then adding by ones

Counting Backwards



Simple- Subtracting the ones

Complex- Subtracting the ones and then the tens

Doubles

4 + 4 = 820 + 20 = 40 Simple- Adding single digit doubles

Complex- Adding double digit doubles

Near Doubles (Doubles plus one or plus two)

$$7 + 8 = 15$$

(I know that 7 doubled is 14 so one more totals 15)

20 + 22= 42

<u>Simple</u>- Double one digit numbers plus one or two <u>Complex</u>- Double a two digit number plus one or two

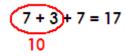
Number Strings

7 + 3 + 7 = 17

+ 7 = 17 Simple- Adding known pairs or doubles and then adding additional numbers

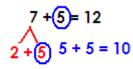
Complex- Creating number strings near ten and combining values

Make Ten



<u>Simple</u>- Find combinations of ten and add digits <u>Complex</u>- Find more than one combination of ten and add digits.

Decompose Numbers



<u>Simple</u>- decomposes single digit numbers <u>Complex</u>- Decomposes double digit numbers and forms combinations of ten

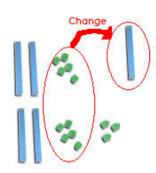
10 + 2 = 12

Compensation

E. Skiba

<u>Simple</u>- Using single digit numbers <u>Complex</u>- Using two digit numbers to get to nearest ten

Regrouping



<u>Simple</u>- Changing ones to a stick of ten <u>Complex</u>- Regrouping with high knowledge of base ten system and place value.



Calculators



<u>Simple</u>- Use appropriate grade level one step functions <u>Complex</u>- Complete multiple step problems