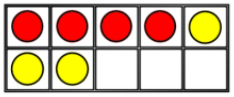
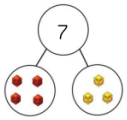
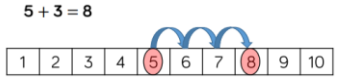
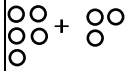
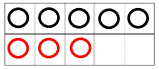
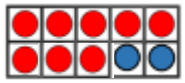
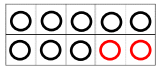
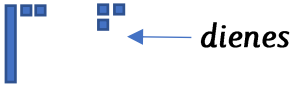
YEAR 1	Addition	
Vocabulary: Addition, add, plus, forwards, put together, make, more than, total, altogether, equals, same as, greater than, most, pattern, odd, even, digit, counting on, part, whole, number bond, numeral, number, commutativity, inverse, systematic.		
Concrete	**Pictorial**	**Abstract**
Add numbers within 10 4 + 3 = 7 3 + 4 = 7    7 = 4 + 3  Dienes or cubes	**Add numbers within 10** **Numeral track (counting on):**  **Dienes jottings (preferred method):** 5 + 3 = 8  **Including the part whole model** **Ten frame jottings preferred method** 	Mental facts to 10 **Number facts** Recall and use addition facts to 10 fluently **the total of 6 and 3 6 plus 2 4 more than 5** **Near doubles:** Instantly recall doubles to 10 and use this to calculate near doubles. 4 + 5 = 4 + 4 + 1 OR 4 + 5 = 5 + 5 - 1 **One and two more:** Of numbers up to 10. 8 + 1 = 9 (consecutive numbers) 5 + 2 = 7 (Consecutive odd or even numbers) 4 + 2 = 6
Number bonds to 10: Rekenrek 8 + 2 = 10  Numicon 10 frame  	**Number bonds to 10:** 8 + 2 = 10 	**Instant recall of facts** **Number bonds to 10:** 0 + 10 = 10 1 + 9 = 10 2 + 8 = 10 3 + 7 = 10 4 + 6 = 10 5 + 5 = 10 6 + 4 = 10 7 + 3 = 10 8 + 2 = 10 9 + 1 = 10 10 + 0 = 10

<table>
<tr>
<td><u>Add numbers within 20:</u>

12 + 3 = 15
 
dienes</td>
<td><u>Add numbers within 20 including number bonds to 20:</u>

12 + 3 = 15
 
Dienes jottings</td>
<td rowspan="4">Mental facts to 20
<u>Partitioning (bridging through 10):</u>
5 + 7
5 + 5 + 2 (partition 7 into 5 and 2) OR
7 + 3 + 2 (partition 5 into 3 and 2)

<u>Using known facts and place value</u>
15 + 4
5 + 4 = 9 so 15 + 4 = 19

<u>Number facts</u>
Know number pairs with a total of 20
16+☐ = 20 20 = 3+☐

<u>One and two more:</u>
Of numbers up to 20.
18 + 1 = 19 (consecutive numbers)
15 + 2 = 17 (Consecutive odd or even numbers)
14 + 2 = 16

<u>Instant recall of facts:</u>
Number bonds to 20

<u>Redistribution:</u>
12 + 5 redistributes to 10 + 7.

<u>Commutativity and Inverse</u>
16 + 4 = 20 20 – 16 = 4
4 + 16 = 20 20 – 4 = 16

Missing Number/Inverse
☐ - 5 = 12 12 - ☐ = 4</td>
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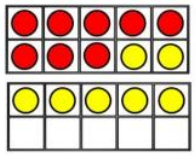
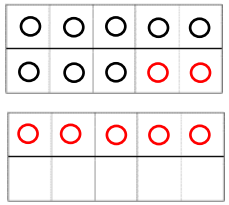
<tr>
<td>Crossing ten
8 + 7 = 15
  </td>
<td>  </td>
</tr>
<tr>
<td>Counting on:
Cubes
8 + 7 = 15
  </td>
<td></td>
</tr>
<tr>
<td>Number bonds to 20:
16 + 4 = 20
4 + 16 = 20
Rekenrek (beginning systematically moving one each time)
  </td>
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