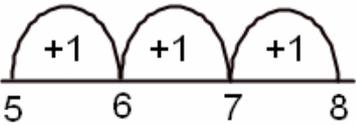
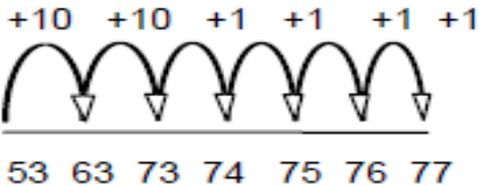
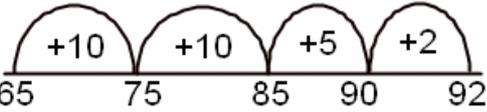
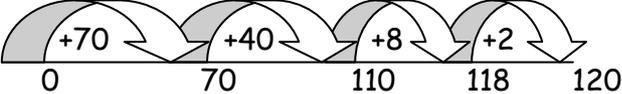
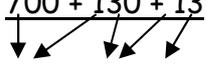


Addition Stage 1	Combine 2 or more sets. Find total by counting all.	Vocab/Key Questions
<p>Use real objects. Record using pictures. Record simple number sentences using + and =.</p> <p><math>2+3=</math> <i>At a party, I eat 2 cakes and my friend eats 3. How many cakes did we eat altogether?</i></p>  <p>You could draw a picture to help you work out the answer.</p> <p><math>7+4=</math> <i>7 people are on the bus. 4 more get on at the next stop. How many people are on the bus now?</i></p>  <p>You could use dots or tally marks to represent objects (quicker than drawing a picture!).</p>		<p>More, count on, add on, total, altogether</p> <p><i>Can you make larger numbers by joining these together?</i></p> <p><i>How many altogether?</i></p> <p><i>What is the total?</i></p>

Addition Stage 2	Count on from the largest number without partitioning.	Vocab/Key Questions
<p>Use real objects. Record using pictures. Count on in 1s on a number line.</p> <p><math>5 + 3 =</math></p> <p><math>5 + \textcircled{3}</math></p> 		<p>Hops, sub-totals, partition, value, digit, count on, add on</p> <p><i>Which is the largest /smallest number?</i></p> <p><i>How many hundreds (H), tens (T) and units (U) are there?</i></p>
<p>Addition Stage 3</p> <p>Count on in 1s 10s or 100s by partitioning the smaller number only.</p>		<p><i>What is the most significant digit?</i></p> <p><i>What is the value of this digit?</i></p> <p><i>What is the subtotal?</i></p> <p><i>What digit(s) will change/ stay the same if we add ten/one hundred?</i></p>
<p><math>53 + 24 =</math></p> <p><math>+10 +10 +1 +1 +1 +1</math></p>  <p><math>53 \ 63 \ 73 \ 74 \ 75 \ 76 \ 77</math></p> <p><math>27 + 65 =</math></p> <p><math>\textcircled{27} + 65</math></p>  <p><math>65 \ 75 \ 85 \ 90 \ 92</math></p>		

Addition Stage 4	Count on by partitioning both numbers.	Vocab/Key Questions
<p><math>72 + 48 = 120</math></p> <p>Start at 0</p> 		See Stages 2 & 3
Addition Stage 5	Compensation on a number line (add too much and take off difference).	Vocab/Key Questions
<div style="display: flex; justify-content: space-around;"> <div> <p><math>64 + 29 =</math></p> <p><math>64 + \textcircled{29}</math></p>  <p>64                      93      94</p> </div> <div> <p><math>346 + 498 =</math></p> <p><math>346 + \textcircled{498}</math></p>  <p>346                      844      846</p> </div> </div> <p>Add a number close to a multiple of ten by rounding it up to the multiple of ten first.</p> <p><u>Don't forget to take off the extra amount you have added (see examples above).</u></p>		<p>Friendly number, round number, boundary</p> <p><i>What is the nearest 10/100/1000?</i></p> <p><i>How much 'too much' have we added?</i></p>

Addition Stage 6	Partition and add mentally.	Vocab/Key Questions
<p>TU TU 72 + 48 =</p> <p>70 + 40 = 110 8 + 2 = 10 110 + 10 = 120</p>	<p>HTU TU 532 + 93</p> <p>500 + 0 = 500 30 + 90 = 120 2 + 3 = 5 500 + 120 + 5 = 625</p>	<p>Hundreds, tens, units, digit, value, total</p> <p><i>How many H/T/U?</i></p> <p><i>Can you add mentally...?</i></p>
Addition Stage 7	Expanded column addition.	Vocab/Key Questions
<p>365 + 478</p> <p>300 + 60 + 5 <u>400 + 70 + 8</u> <u>700 + 130 + 13 = 843</u></p>	<p>300 + 60 + 5 <u>400 + 70 + 8</u> <u>700 + 130 + 13 = 843</u></p>  <p>800 + 40 + 3 = 843</p> <p>Further partitioning may be useful!</p>	<p>Partition, value, hundreds, tens, units, re-combine</p> <p><i>How many different ways can this number be partitioned?</i></p>

Addition Stage 8	Expanded column addition adding least significant digit first.	Vocab/Key Questions
$\begin{array}{r} 342 + \\ \underline{186} \\ 8 \\ 120 \\ \underline{400} \\ 528 \end{array}$	<p>Start by adding the units first. Then add tens underneath. Then add hundreds underneath the tens. Total each column to find the answer.</p> <p>This method can be used with numbers of any size!</p>	<p>See Stage 7</p>
Addition Stage 9	Column addition using carrying.	Vocab/Key Questions
<p>Introducing carrying by restricting integers to the 'correct' column.</p> <p><math>365 + 478</math></p> <p><math>300 + 60 + 5</math> <math>400 + 70 + 8</math> <math>700 + 30 + 3</math> <math>\underline{100 \quad 10}</math></p> <p><math>800 + 40 + 3 = 843</math></p>		<p>Thousands, hundreds, tens, units column, value, carry</p> <p><i><math>60 + 70 + 10 = 140</math>. 100 cannot fit into the 'tens' column. What do we have to do?</i></p>
<p>Compact method</p> $\begin{array}{r} 365 \\ + 478 \\ \underline{843} \\ 11 \end{array}$ $\begin{array}{r} 4768 \\ + 2149 \\ \underline{6917} \\ 11 \end{array}$		<p><i>What does this digit represent?</i></p> <p><i>How do you know?</i></p>