|  | Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: | :---: |
|  | Find one more of a given number. | Use practical resources to count on one more. | Children record using dots/starts etc to show one more. <br> They move onto jumping on number tracks. | $2+1=3$ |
|  | Combine two parts to make a whole. | Use other resources too e.g. eggs, shells, teddy bears, cars, dinosaurs. Try to use objects linked to the class topic. | Use pictures along with part, part, whole models to show two parts becoming one. Children could progress onto their being 3 parts. <br> When ready children use cubes and then dots to record into a part, part, whole model. | $4+3=7$ <br> Four is a part, three is a part and the whole is seven. |


| $\begin{aligned} & \text { ন } \\ & \frac{1}{\pi} \\ & \underset{\sim}{\sim} \end{aligned}$ | Start at the bigger number and count on (cubes followed by number line/track) | Counting on using number lines, cubes, Numicon, bead strings etc. | Start with the larger number and jump on in ones | What is 2 more than 4? <br> What is the sum of 2 and 4 ? What is the total of 4 and 2 ? $4+2=$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Regrouping to make 10. | Ten frames and counters/cubes or using Numicon. | Children to draw the ten frame and counters/cubes. | Children to develop an understanding of equality e.g. $\begin{aligned} & 6+\ldots=11 \\ & 6+5=5+- \\ & 6+5=\ldots+4 \end{aligned}$ |
| $\begin{aligned} & N \\ & \underset{\pi}{\sim} \\ & \underset{\sim}{2} \end{aligned}$ | Add three single digits. | $4+7+6=17$ <br> Add 4 and 6 together to make 10. Then add on 7. <br> Following on from making 10, make 10 with 2 of the digits (if possible) then add the third digit. | Add together three groups of objects. Draw a picture to recombine the groups to make 10. | $\begin{aligned} & 4+7+6=17 \\ & \begin{aligned} 4+7+6 & =10+7 \\ 10 & =17 \end{aligned} \end{aligned}$ <br> Combine the two numbers that make 10 and then add on the remainder. |



|  | Use the expanded column method to add pairs of numbers (regrouping) <br> Up to 3 digits | Use of place value counters to add HTO + TO, HTO + HTO etc. When there are 10 ones in the 1 s column- we exchange for 1 ten, when there are 10 tens in the 10s column- we exchange for 1 hundred. | Children to represent the counters in a place value chart, circling when they make an exchange. | $\begin{array}{r} 243 \\ +\quad 368 \\ \hline 11 \\ 100 \\ 500 \\ \hline 611 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \pm \\ & \frac{1}{\mathbb{O}} \\ & \underset{\sim}{2} \end{aligned}$ | Column method to add pairs of numbers. <br> Up to 4 digits | Use of place value counters to add numbers together including numbers up to 4 digits numbers. | Children to represent the counters in a place value chart. |  |





## Conceptual variation; different ways to ask children to solve 21 +

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Key Vocabulary: add, addition, sum, total, parts and wholes, plus, altogether, more, more than, and, increase, count on.

