## Cheadle Catholic Junior School Calculation Policy

Adapted from White Rose


## Calculation Policy- Addition

Key Language: sum, total, parts and whole, plus, add, altogether, more, is equal to, is the same as. (Addends)

| Objectives | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| EYFS <br> Adds and subtracts, using quantities and objects, 2 single-digit numbers, and counts on or back to find the answer (ELG) <br> Finds the total number of items in two groups by counting all of them | Combining two parts to make a whole (use othe <br> resources too e.g. eggs, shells, teddy bears, cars | Children to represent the cubes using dots or crosses. They could put each part on a part whole model too. | $4+3=7$ <br> Four is a part, 3 is a part and the whole is seven. |
| Year 1 <br> Read and interpret mathematical statements involving addition ( + ), subtraction (-) and equals ( $=$ ) signs Write mathematical statements involving addition (+), subtraction $(-)$ and equals ( $(=)$ signs <br> Represent and use number bonds within 20 <br> Add one-digit and two-digit numbers to 20 , including zero | Use tens frames, counters and numicon. | Part whole models and bar models. | Part whole models $4+3=7$ <br> Four is a part, 3 is a part and the whole <br> is seven. <br> Bar models $3+1=4$ $\square$ |




## Calculation Policy- Subtraction

Key Language: take away, less than, the difference, subtract, minus, fewer, decrease (Regrouping)

| Objectives | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| EYFS <br> Adds and subtracts, using quantities and objects, 2 single-digit numbers, and counts on or back to find the answer (ELG) | Physically take away objects. $4-3=1$ <br> Use tens frames and counters | Children to draw the concrete resources they are using and cross out the correct amount. The bar model can also be used. <br> Q Q®O | Part whole models |
| Year 1 <br> Read and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> Write mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> I can use subtraction facts up to 20 <br> I can subtract one digit and two digit numbers to 20 | Use tens frames and counters. <br> Children to present the ten frame pictorially and discuss what they did to make 10 . | Part whole models 7-3 = 4 $\begin{aligned} & 00000000 \\ & 00000 \stackrel{?}{?} \end{aligned}$ | Part whole models and bar models 7-3 = 4 |




## Calculation Policy- Multiplication

Key Language: double, times, multiplied by, the product of, groups of, lots of, equal groups.




## Calculation Policy- Division

Key Language: share, group, divide, divided by, half, dividend, divisor, quotient




