## Mathemantical language at OPS

Purpose of this information: To build students' understandings of mathematical words and concepts. To use the same language for mathematics across the school and at home.

4 processes Addition - Finding the total, or sum, by combining two or more numbers.
Subtraction - Taking one number away from another, for example if you have 5 apples and you subtract 2, you are left with 3.
Multiplication - The basic idea for multiplication is repeated addition e.g. $5 \times 3=5+5+5=15$
But as well as multiplying by whole numbers, we can also multiply by fractions, decimals and more.
Division - Splitting into equal parts of groups. It is the result of "fair sharing".
Algorithm
A well-defined set of instructions designed to perform a particular task or solve a type of problem, such as determining which of two fractions is larger, bisecting an angle, or calculating the mean of a set of numbers.
Automatic Knowing facts 'off by heart' for fast response.
Recall
Digits $\quad$ There are 10 of them. 0,1,2,3,4,5,6,7,8 and 9.
Doubles/Near
Doubles
Extended
(expanded)
notation
Twice as many or nearly twice as many.
Writing a number to show the value of each digit. It is shown as a sum of each digit multiplied by its matching place value (ones, tens, hundreds). For example: $293=2 \times 100+$ $9 \times 10+3$
Equals
Exactly the same amount or value. For example, $1+1=2$ and 1 dollar is equal to 100


|  | renamed in a variety of ways. A number such <br> as 68 can be viewed as 6 tens and 8 ones. |
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| Structuring <br> numbers | The crucial development of mentally adding <br> and subtracting that is, not counting to get <br> answers, like when you know 5 and 5 is 10. |
| Whole numbers | Whole numbers are the natural numbers along <br> with zero: for example 0, 1, 2, 3, 4 etc. |
| Worded <br> problems | When a mathematical problem is asked through <br> a question using a real life experience. |



