



Learning the Language of Mathematics...

As language is essential to the learning of mathematics, please support your child to understand and use the mathematical language that they will need this half term.

It will provide them with a means to express their understanding, negotiate meanings, to develop their thinking further and to share their findings with others. It will also support them to make the transition of problems between the real world and mathematics.

With a secure understanding of the necessary vocabulary, they will be able to classify mathematical objects, understand mathematical ideas and articulate and communicate their mathematical reasoning.

This term, your child will be developing their understanding of number and place value and so the mathematical words that they will need to learn and be able to use fluently are as follows:

| PLACE VALUE, ORDERING AND ROUNDING | PROPERTIES OF NUMBERS AND NUMBER; SEQUENCES |
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| units, ones, tens, hundreds, thousands ten thousand, hundred thousand, million digit, one-, two-, three- or four-digit number numeral, 'teens' number, place, place value stands for, represents, exchange the same number as, as many as, equal to Of two objects/amounts: G, greater than, more than, larger than, bigger than g, less than, fewer than, smaller than ≥, greater than or equal to less than or equal to Of three or more objects/amounts: greatest, most, largest, biggest, least, fewest, smallest one... ten... one hundred... one thousand more/less compare, order, size, ascending/descending order first... tenth... twentieth, last, last but one, before, after, next, between, half-way between | number, count, how many...? odd, even every other how many times? multiple of digit next, consecutive sequence continue predict pattern, pair, rule relationship sort, classify, property formula divisible (by), divisibility, factor, factorise square number one squared, two squared... prime, prime factor |

Year 6 Number: Place Value and Calculation

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| guess how many, estimate, nearly, roughly, close to, about the same as, approximate, approximately, is approximately equal to, just over, just under, exact, exactly, too many, too few, enough, not enough round (up or down), nearest round to the nearest ten/hundred/thousand integer, positive, negative, above/below zero, minus | |
| FRACTIONS AND DECIMALS | SOLVING PROBLEMS |
| part, equal parts fraction, proper/improper fraction, mixed number numerator, denominator equivalent, reduced to, cancel one whole, half, quarter, eighth, third, sixth, ninth, twelfth, fifth, tenth, twentieth, hundredth, thousandth proportion, ratio, in every, for every, to every, as many as, decimal, decimal fraction, decimal point, decimal place percentage, per cent, % | pattern, puzzle calculate, calculation mental calculation method, strategy jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation |



| ADDITION AND SUBTRACTION | MULTIPLICATION AND DIVISION |
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| <p>add, addition, more, plus, increase, make, sum, total</p> <p>altogether, score, double, near double</p> <p>one more, two more... ten more... one hundred more</p> <p>how many more to make ... ?</p> <p>how many more is ... than ... ?</p> <p>how much more is ... ?</p> <p>subtract, subtraction, take (away), decrease</p> <p>leave, how many are left/left over?</p> <p>one less, two less ... ten less ... one hundred less</p> <p>how many fewer is ... than ... ?</p> <p>how much less is ... ?</p> <p>difference, difference between</p> <p>half, halve</p> <p>equals, equals to, equivalent, sign, is the same as</p> <p>tens boundary, hundreds boundary, tenths boundary</p> <p>inverse, partition</p> | <p>lots of, groups of, times, multiplication, multiply, multiplied by, multiplied by, multiple of, product</p> <p>once, twice, three times ... ten times ...</p> <p>times as (big, long, wide, etc.)</p> <p>repeated addition, array, row, column</p> <p>double, halve</p> <p>share, share, sharing, equally</p> <p>one each, two each, three each ...</p> <p>group in pairs, threes ... tens</p> <p>equal groups of, grouping</p> <p>divide, divided by, divided into, division, dividing by</p> <p>left, left over</p> <p>repeated subtraction</p> <p>inverse, factor, quotient, divisible by</p> <p>mode, range, maximum/minimum value, outcome</p> <p>prime, prime factors, composite numbers, square numbers, cube numbers</p> |

Year 6 Number: Place Value and Calculation

| FRACTIONS | SOLVING PROBLEMS |
|---|---|
| <p>whole, part, equal parts, one whole fraction, part of a whole, one equal part of a whole half, one of two equal parts of a whole one half, two halves quarter, one of four equal parts of a whole one quarter, two quarters, three quarters divided into equal parts tenths, eighths, thirds, sixths, fifths, twentieths, hundredths, ninths, twelfths, thousandths numerator, denominator equivalence, equivalent, fractions of amounts/ quantities compare, order, proportion, in every, for every, decimal, decimal fraction, decimal point, decimal place, decimal equivalence, round proper/improper, mixed number, reduced to, cancel, ratio, to every, as many as, scaling, percentage, per cent, common factors, simplify</p> | <p>pattern, puzzle calculate, calculation mental calculation method, strategy jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation</p> |