# Adlington Primary School

## Progression in Mathematics Vocabulary

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|---|---|---|---|---|---|
| **Number, Place Value** | ***Number***<br>zero<br>number<br>one, two, three … to twenty and beyond<br>teens numbers, eleven, twelve … twenty<br>none<br>how many …?<br>count, count (up) to, count on (from, to), count back (from, to)<br>count in ones, twos, fives, tens<br>is the same as<br>more, less<br>odd, even<br>few<br>pattern<br>pair<br>***Place value***<br>ones<br>tens | ***Number***<br>numeral<br>twenty-one, twenty-two … one hundred<br>forwards<br>backwards<br>equal to<br>equivalent to<br>most, least<br>many<br>multiple of<br>***Place value***<br>half-way between | ***Number***<br>two hundred … one thousand<br>count in threes, fours<br>tally<br>sequence<br>continue<br>predict<br>rule<br>> greater than<br>< less than<br>***Place value***<br>hundreds | ***Number***<br>count in eights, fifties<br>factor of<br>relationship<br>Roman numerals<br>***Place value***<br>one hundred more | ***Number***<br>ten thousand, hundred thousand, million<br>count in sixes, sevens, nines and twenty-fives<br>next, consecutive integer, positive, negative<br>above/below zero, minus<br>negative numbers<br>***Place value***<br>one thousand more | ***Number***<br>factor pair<br>≥ greater than or equal to<br>≤ less than or equal to<br>formula<br>divisibility<br>square number<br>prime number<br>ascending/descending<br>order (BODMAS) | ***Number***<br>factorise<br>prime factor<br>digit total |

May cover earlier

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|---|---|---|---|---|---|---|---|
| | digit<br>the same number as, as many as<br>more, larger, bigger, greater<br>fewer, smaller, less<br>fewest, smallest, least<br>most, biggest, largest, greatest<br>one more, ten more<br>one less, ten less<br>compare<br>order<br>size<br>first, second, third… twentieth<br>last, last but one<br>before, after, next<br>between<br>***Estimating***<br>guess<br>how many …?<br>estimate<br>nearly<br>close to<br>about the same as<br>just over, just under<br>too many, too few<br>enough, not enough | above, below<br>***Estimating***<br>roughly | one-, two- or three-digit number<br>place, place value<br>stands for, represents<br>exchange<br>twenty-first, twenty-second …<br>***Estimating***<br>exact, exactly | one hundred less<br>***Estimating***<br>approximate, approximately<br>round, nearest, round to the nearest ten, hundred<br>round up, round down | one thousand less<br>***Estimating***<br>Round to the nearest thousand | ***Estimating***<br>Round to the nearest ten thousand | |

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|---|---|---|---|---|---|---|---|
| **Addition and Subtraction** | add, more, and<br>make, sum, total<br>altogether<br>double<br>one more, two more … ten more<br>how many more to make …?<br>how many more is … than …?<br>how much more is …?<br>take away<br>how many are left/left over?<br>how many have gone?<br>one less, two less, ten less …<br>how many fewer is … than …?<br>how much less is …?<br>difference between | addition<br>near double<br>half, halve<br>subtract<br>equals<br>is the same as<br>number bonds/pairs<br>missing number | one hundred more<br>one hundred less<br>number facts<br>tens boundary | hundreds boundary | inverse | ones boundary, tenths boundary | |
| **Multiplication and Division** | sharing<br>doubling<br>halving<br>number patterns | multiplication<br>multiply<br>multiplied by<br>multiple<br>division<br>dividing<br>grouping<br>array | groups of<br>times<br>once, twice, three times … ten times<br>repeated addition<br>divide, divided by, divided into | factor<br>product<br>remainder | inverse<br>square, squared<br>cube, cubed | | |

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|---|---|---|---|---|---|---|---|
| | | | share, share equally<br>left, left over<br>one each, two each, three each … ten each<br>group in pairs, threes … tens<br>equal groups of<br>row, column<br>multiplication table<br>multiplication fact, division fact | | | | |
| **Fractions (including decimals and percentages)** | parts of a whole<br>half<br>quarter | fraction<br>equal part<br>equal grouping<br>equal sharing<br>one of two equal parts<br>one of four equal parts | equivalent fraction<br>mixed number<br>numerator, denominator<br>two halves<br>two quarters, three quarters<br>one third, two thirds<br>one of three equal parts | sixths, sevenths, eighths, tenths … | hundredths<br>decimal, decimal fraction, decimal point, decimal place, decimal equivalent<br>proportion | proper/improper fraction<br>equivalent, reduced to, cancel<br>thousandths<br>in every, for every<br>percentage, per cent, % | ratio |
| **Measures** | measure<br>size<br>compare<br>guess, estimate<br>enough, not enough<br>too much, too little<br>too many, too few | measurement | measuring scale | division<br>approximately | unit, standard unit<br>metric unit | imperial unit | |

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|---|---|---|---|---|---|---|---|
| | nearly, close to, about the same as<br>just over, just under<br><br>***Length***<br>metre<br>length, height, width, depth<br>long, short, tall<br>high, low<br>wide, narrow<br>thick, thin<br>longer, shorter, taller, higher … and so on<br>longest, shortest, tallest, highest … and so on<br>far, near, close<br><br>***Weight***<br>weigh, weighs, balances<br>heavy, light<br>heavier than, lighter than<br>heaviest, lightest<br>scales<br><br>***Capacity and volume*** | ***Length***<br>Centimetre ruler<br>metre stick<br><br>***Weight***<br>kilogram, half kilogram<br><br>***Capacity and volume***<br>litre, half litre | ***Length***<br>further, furthest<br>tape measure<br><br>***Weight***<br>gram<br><br>***Capacity and volume***<br>Millilitre | ***Length***<br>millimetre, kilometre, mile<br>distance apart … between … to … from<br>perimeter | ***Length***<br>breadth<br>edge,<br>area, covers<br>square centimetre (cm2)<br><br>***Weight***<br>mass: big, bigger, small, smaller<br>weight: heavy/light, heavier/lighter, heaviest/lightest<br><br>***Capacity and volume***<br>measuring cylinder | ***Length***<br>square metre (m2), square millimetre (mm2)<br><br>***Capacity and volume***<br>pint, gallon | ***Length***<br>yard, foot, feet, inch, inches<br>circumference<br><br>***Weight***<br>tonne, pound, ounce<br><br>***Capacity and volume***<br>centilitre |

May cover earlier

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|---|---|---|---|---|---|---|---|
| | full<br>empty<br>half full<br>holds<br>container<br><br>***Time***<br>time<br>days of the week, Monday, Tuesday …<br>day, week<br>birthday, holiday<br>morning, afternoon, evening, night<br>bedtime, dinner time, playtime<br>today, yesterday, tomorrow<br>before, after<br>next, last<br>now, soon, early, late<br>quick, quicker, quickest, quickly<br>slow, slower, slowest, slowly<br>old, older, oldest<br>new, newer, newest<br>takes longer, takes less time | capacity<br>volume<br>more than<br>less than<br>quarter full<br><br>***Time***<br>months of the year (January, February ...)<br>seasons: spring, summer, autumn, winter<br>weekend, month, year<br>earlier, later<br>first,<br>midnight<br>date<br>how long ago?<br>how long will it be to …?<br>how long will it take to …?<br>how often?<br>always, never, often, sometimes<br>usually<br>once, twice<br>half past, quarter past,<br>clock face, | Contains<br><br>***Time***<br>fortnight,<br>5, 10, 15 … minutes past<br>digital/analogue clock/watch, timer<br>seconds | ***Time***<br>century<br>calendar<br>earliest, latest<br>a.m., p.m.<br>12-hour clock time, 24-hour clock time | ***Time***<br>leap year<br>millennium<br>noon<br>date of birth<br>timetable, arrive, depart | | cubic centimetres(cm3), cubic metres (m3), cubic millimetres (mm3), cubic kilometres (km3) |

**May cover earlier**

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|---|---|---|---|---|---|
| | hour, o'clock<br>clock, watch, hands<br><br>***Money***<br>money<br>coin<br>penny, pence, pound<br>price, cost<br>buy, sell<br>spend, spent<br>pay | hour hand, minute hand<br>hours, minutes<br><br>***Money***<br>change<br>dear, costs more<br>cheap, costs less, cheaper<br>costs the same as<br>how much …?<br>how many …?<br>total | ***Money***<br>bought, sold<br><br>***Temperature***<br>temperature<br>degree | ***Temperature***<br>centigrade | | ***Money***<br>discount<br>currency | ***Money***<br>profit, loss |
| **Statistics** | count, sort<br>group, set<br>list | vote<br>table | tally,<br>graph, block graph, pictogram<br>represent<br>label, title<br>most popular, most common<br>least popular, least common | chart, bar chart, frequency table<br>Carroll diagram, Venn diagram<br>axis, axes<br>diagram | survey, questionnaire, data | Database<br>bar line chart<br>line graph<br>maximum/minimum value<br>outcome | pie chart<br>mean (mode, median, range as estimates for this)<br>statistics, distribution |
| **Geometry** | **Properties of shape**<br>shape, pattern<br>flat | ***Properties of shape***<br>symmetry, | ***Properties of shape***<br>surface<br>line symmetry | ***Properties of shape***<br>perimeter | ***Properties of shape***<br>line<br>construct<br>sketch | ***Properties of shape***<br>radius, diameter<br>congruent<br>axis of symmetry, | ***Properties of shape***<br>circumference, concentric, arc<br>net (Y4), open, closed |

**May cover earlier**

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|---|---|---|---|---|---|---|---|
| | curved, straight<br>round<br>hollow, solid<br>sort<br>make, build, draw<br>size<br>bigger, larger, smaller<br>symmetrical<br>pattern, repeating pattern<br>match | symmetrical pattern | | | centre<br>angle, right-angled<br>base, square-based<br>reflect, reflection<br>regular, irregular | reflective symmetry | intersecting, intersection<br>plane |
| | ***2-D shape***<br>corner, side<br>rectangle (including square)<br>circle<br>triangle | ***2-D shape***<br>point, pointed | ***2-D shape***<br>rectangular, circular, triangular<br>pentagon<br>hexagon<br>octagon | ***2-D shape***<br>pentagonal<br>hexagonal<br>octagonal<br>quadrilateral<br>right-angled<br>parallel, perpendicular | ***2-D shape***<br>2-D, two-dimensional<br>oblong<br>rectilinear<br>equilateral triangle, isosceles triangle, scalene triangle<br>heptagon<br>parallelogram, rhombus, trapezium<br>polygon | ***2-D shape***<br>x-axis, y-axis, quadrant | ***2-D shape***<br>Kite (Y4) |
| | ***3-D shape***<br>face, edge, vertex, vertices<br>cube<br>pyramid<br>sphere | ***3-D shape***<br>Cuboid<br>Cylinder | | ***3-D shape***<br>hemisphere<br>prism, triangular prism | ***3-D shape***<br>3-D, three-dimensional<br>spherical | ***3-D shape***<br>Octahedron | ***3-D shape***<br>dodecahedron<br>net, open, closed (Y4) |

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|---|---|---|---|---|---|---|---|
| | cone<br><br>**Position and direction**<br>position<br>over, under<br>above, below<br>top, bottom, side<br>on, in<br>outside, inside<br>around<br>in front, behind<br>front, back<br>beside, next to<br>opposite<br>apart<br>between<br>middle, edge<br>corner<br>direction<br>left, right<br>up, down<br>forwards, backwards, sideways across<br>next to, close, near, far | **Position and direction**<br>Underneath<br>Centre<br>Journey<br>quarter turn, three-quarter turn | **Position and direction**<br>route<br>higher, lower<br>clockwise, anticlockwise<br>right angle<br>straight line | **Position and direction**<br>compass point<br>north, south, east, west, N, S, E, W<br>horizontal, vertical, diagonal<br>angle … is a greater/smaller angle than<br>acute angle<br>obtuse angle | cylindrical<br>tetrahedron, polyhedron<br>**Position and direction**<br>north-east, north-west, south-east, south-west, NE, NW, SE, SW<br>translate, translation<br>rotate, rotation<br>degree<br>reflection<br>ruler, set square<br>angle measurer, compass | **Position and direction**<br>Coordinate (Y4)<br>protractor | **Position and direction**<br>reflex angle (Y4) |

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|---|---|---|---|---|---|---|---|
| | along<br>through<br>to, from, towards, away from<br>movement<br>slide<br>roll<br>turn<br>stretch, bend<br>whole turn, half turn | | | | | | |
| **Algebra** | | | | | | formula | formulae<br>equation<br>unknown<br>variable |
| **Ratio and proportion** | | | | | | | scale factor |
| **General** | pattern<br>puzzle<br>what could we try next?<br>how did you work it out?<br>recognise<br>describe<br>draw<br>compare<br>sort | problem, problem solving<br>mental, mentally explain your thinking | show how you … explain your method<br>describe the pattern<br>describe the rule<br>investigate<br>mental calculation<br>written calculation | greatest value, least value<br>statement | justify<br>make a statement | explain your reasoning | |

**May cover earlier**