

Mathematics Vocabulary Progression document (YR-Y6)



This document is designed to assist with the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning. This document identifies in which year group vocabulary should be explicitly taught and introduced. However, language should be revisited in subsequent year groups to ensure children are consolidating their understanding.

Number - Number and place value

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|--|--|---|--|---|--------------------------|
| count subitise order/ordinal compare forwards backwards numerals digit one more one less equal to more than less than (fewer) | sort represent multiples partitioning ones tens | count in steps count in multiples place value estimate compare | ascending descending 10 or 100 more 10 or 100 less hundreds | negative numbers roman numerals 1000 more 1000 less thousands round | ten thousands one hundred thousands powers of integer | millions ten millions |

Addition and subtraction

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|---|--------------------------------------|--|---|--------|--------|
| add plus altogether total take away /minus number bonds part whole digit | addition/add subtraction difference equals facts problems missing number problems 2-digit number inverse | sum 3-digit number commutative | column addition column subtraction exchange estimate | 4-digit number operations methods | | |

Multiplication and division

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|--------------------------------------|--|--|--|---|---|
| double half twice as many equal unequal share group odd even | multiplication division arrays | multiplication tables commutative repeated addition | exchange mathematical statements missing number problems integer scaling problems correspondence problems derived facts | factor pairs formal written layout distributive law remainders | multiples factors prime numbers square numbers cube numbers short division product dividend divisor quotient operations | multi-digit numbers long division |

| Fractions/Decimals/Percentages | | | | | | |
|--------------------------------|---|---|--------|--|--|--------|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | whole half quarter equal parts | three quarters third equivalent fractions unit fractions non unit fractions numerator denominator one whole | tenths | decimal equivalence hundredths convert proper fractions improper fractions decimal point | fifth thousandths mixed numbers percent % factors integer | |

| Ratio and proportion | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | | | | | | relative size missing values integer multiplication percentages scale factor unequal sharing & grouping |

| Algebra | | | | | | |
|---------|--------|--------|--------|--------|--------|--|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | | | | | | formulae linear number sequences algebraically equation unknowns combinations variables |

| Measurement (Measure and Length) | | | | | | |
|---|---------|---|----------------------------|---|---|--|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| measure wide(er) narrow(er) compare long(er)(est) short(er)(est) length | compare | standard units estimate order record results centimetre cm metre m | millimetre mm perimeter | kilometres km rectilinear figure area | decimal notation scaling metric units imperial units inches compound shape irregular shapes square centimetres square metres | conversion miles formulae parallelograms triangles feet |

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|----------------|--|--------|--------|-------------------------------------|---|
| height long(er)/short(er) tall(er)/short(er) weight capacity heavy/light heavier than lighter than big/bigger/biggest full/empty more than less than half/half full | mass volume | kilogram kg gram g quarter full three quarters full litres l millilitres ml temperature Celsius | | | cubic centimetre pounds pints | cubic metre cubic millimetre cubic kilometre gallons stones ounces |

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|---|--|---|---------|--------|--------|
| time quicker slower earlier later before after first next today yesterday tomorrow morning afternoon evening day week hour minutes | chronological order <i>days of the week</i> <i>months of the year</i> month year o'clock half past second | intervals of time quarter past/to duration | analogue clock roman numerals 12-hour clock 24-hour clock a.m./p.m. noon midnight leap year digital | convert | | |

| Measurement (Money) | | | | | | |
|---------------------|--|-----------------|--------|--------|--------|--------|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | money coins notes pounds £ pence p | value change | | | | |

Geometry – Properties of Shape

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|--|---|--|---|---|
| 2-d shapes rectangle square circle triangle characteristics 3-d shapes cuboids cubes cone spheres curved straight flat | sides corners properties pyramids faces | pentagon hexagon line of symmetry properties cylinder edges vertices vertex | right-angle triangle heptagon octagon polygon properties prism orientations angles acute angle obtuse angle turn right angles half turn three quarters of a turn greater than right angle less than right angle horizontal lines vertical lines perpendicular lines parallel lines | isosceles equilateral scalene trapezium rhombus parallelogram kite geometric shapes quadrilaterals | regular polygon irregular polygon reflex angles degrees one whole turn angles on straight line angles around a point vertically opposite missing angles | radius diameter circumference dimensions |

| Statistics | | | | | | |
|------------|--------|--|--|--|-----------------------------|-------------------|
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| | | pictograms tally chart block diagram category sorting totaling comparing horizontal vertical | table bar chart one-step problem two-step problem | time graph discrete data continuous data line graph comparison problem sum problem difference problem calculate interpret | timetable two-way tables | pie chart mean |

Geometry – Position and direction

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|--|---|--------|--|------------|-------------------------------------|
| over under between around through on into next to behind beneath order repeat patterns on top of | position direction movement whole turn quarter turn half turn three-quarter turn | clockwise/anti- clockwise straight line rotation arrange sequences | | co-ordinates first quadrant grid translation plot polygon axis | reflection | four quadrants co-ordinate plane |