

This document details the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning. The teaching of new mathematical vocabulary is threaded throughout lessons and units of work and is a fundamental part of learning and understanding of mathematical concepts. 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 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| count | sort | count in steps | ascending | negative numbers | ten thousands | millions |
| subsidise | represent | count in multiples | descending | roman numerals | one hundred thousands | ten millions |
| order/ordinal | multiples | place value | 10 or 100 more | 1000 more | powers of | factorise |
| compare | partitioning | estimate | 10 or 100 less | 1000 less | integer | prime factor |
| forwards | ones | compare | hundreds | thousands | factor pair | digit total |
| backwards | tens | value | fours | partition | < |  |
| numerals | estimate | part | eights | sixes | > |  |
| digit | digit | represent | fifties | sevens | one million |  |
| one more | greater | base 10 | estimate | nines |  |  |
| one less | fewer | bonds | factor of | twenty five |  |  |
| equal to | equal | hundred | round | positive |  |  |
| more than | order | threes |  |  |  |  |
| less than (fewer) | whole | exchange |  |  |  |  |
| zero | sequence | digit |  |  |  |  |
| count | compare | one thousand |  |  |  |  |
| odd | twos | sequence |  |  |  |  |
| even | fives | continue |  |  |  |  |
| pair | number | predict |  |  |  |  |
| first | equal |  |  |  |  |  |
| second | more/most |  |  |  |  |  |
| third | less/least |  |  |  |  |  |
|  | greater than |  |  |  |  |  |
|  | less than |  |  |  |  |  |
|  | consecutive |  |  |  |  |  |


| Addition and subtraction |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| add | addition | sum | column addition | 4-digit number | tenths boundary |  |


| plus | subtraction | 3-digit number | column subtraction | operations | ones boundary |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| altogether | equals | commutative | exchange | methods |  |  |
| total | facts | inverse | estimate | inverse |  |  |
| take away /minus | problems | operation |  |  |  |  |
| number bonds | missing number problems | symbol |  |  |  |  |
| part | 2-digit number | number sentence |  |  |  |  |
| whole | inverse | one hundred less |  |  |  |  |
| digit | total | one hundred more |  |  |  |  |
| more | altogether | tens boundary |  |  |  |  |
| and | left |  |  |  |  |  |
| one more | difference |  |  |  |  |  |
| difference | fact families |  |  |  |  |  |
| between | double |  |  |  |  |  |
|  |  |  |  |  |  |  |
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| Multiplication and division |  |  |  |  |  |  |
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| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| double | multiplication | multiplication tables | exchange | factor pairs | multiples | multi-digit numbers |
| half | division | commutative | mathematical statements | formal written layout | factors | long division |
| twice as many | arrays | repeated addition | missing number problems | distributive law | prime numbers |  |
| equal | lots of | arrays | integer scaling problems | remainders | cube numbers |  |
| unequal | groups of | row column | correspondence problems | square numbers | short division |  |
| share | pattern | repeated subtraction | derived facts | inverse | product |  |
| group | times | away |  |  | dividend |  |
| odd | fact families | groups of |  |  | divisor |  |
| even | grouping | times |  |  | quotient |  |
| number patterns |  | one time |  |  | operations |  |
|  |  | divide |  |  |  |  |
|  |  | row |  |  |  |  |
|  |  | column |  |  |  |  |
|  |  | multiplication fact |  |  |  |  |
|  |  |  |  |  |  |  |
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| Fractions/Decimals/Percentages |  |  |  |  |  |  |
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| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| parts of a whole | whole | three quarters | tenths | decimal equivalence | fifth |  |



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


| Algebra |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | 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)

| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| measure | compare | standard units | millimetre mm | kilometres km | decimal notation | conversion |
| wide(er) | longer | estimate | perimeter | rectilinear figure | scaling | miles |
| narrow(er) | Centimetre (cm) | order | division | area | imperial units | formulae |
| compare | ruler | record results | kilometre (km) | unit | inches | parallelograms |
| long(er)(est) | metre stick | metre (m) | mile | metric units | compound shape | triangles |
| short(er)(est) |  | non standard |  |  | irregular shapes | feet |
| length |  | scale |  |  | square centimetres | yard |
| size |  | further |  |  | square metres | foot |
| guess |  |  |  |  |  | inch/inches |
|  |  |  |  |  |  | circumference |


| Measurement (Height, Weight and Capacity) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| height | mass | kilogram kg | centregrade | mass | cubic centimetre | cubic metre |
| long(er)/short(er) | volume | gram g |  | measuring cylinder | pounds | cubic millimetre |
| tall(er)/short(er) | heavier | quarter full |  |  | pints | cubic kilometre |
| weight | lighter | three quarters full |  |  | gallon | gallons |
| capacity | full | litres (1) |  |  |  | stones |
| heavy/light | empty | millilitres (ml) |  |  |  | ounces |
| heavier than | half full | temperature |  |  |  | tonne |
| lighter than | balance | celsius |  |  |  | centilitre |
| big/bigger/biggest | weigh | volume |  |  |  |  |
| full/empty | kilogram (kg) | capacity |  |  |  |  |
| more than |  | mass |  |  |  |  |
| less than |  | weight |  |  |  |  |



| Measurement (Time) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| time | chronological order | intervals of time | analogue clock | convert |  | Greenwich mean time |
| quicker | days of the week | duration | roman numerals | date of borth |  | British summer time |
| slower | months of the year | time past | 12-hour clock | timetable |  | International date line |
| clock | month | 5 minute intervals | 24-hour clock | noon |  |  |
| before | year | temperature | a.m./p.m. | arrive |  |  |
| after | o'clock | degree | midnight | depart |  |  |
| first | half past | fortnight | leap year |  |  |  |
| next | second | digital | calendar |  |  |  |
| today | seasons | analogue | earliest |  |  |  |
| yesterday | weekend |  | latest |  |  |  |
| tomorrow | earlier |  |  |  |  |  |
| morning | later |  |  |  |  |  |
| afternoon | midnight |  |  |  |  |  |
| evening | clock face |  |  |  |  |  |
| day | hour hand |  |  |  |  |  |
| week | minute hand |  |  |  |  |  |



Measurement (Money)

| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| penny | money | value |  |  | discount | profit |
| price | coins | worth |  |  | currency | loss |
| cost | notes | order |  |  |  |  |
| buy | pounds (£) | compare |  |  |  |  |
| sell | pence (p) |  |  |  |  |  |
|  | value |  |  |  |  |  |
|  | change |  |  |  |  |  |
|  | total |  |  |  |  |  |


| Geometry - Properties of Shape |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| 2-d shapes | sides | pentagon | right-angle triangle | isosceles | regular polygon | radius |
| rectangle | corners | hexagon | heptagon | equilateral | irregular polygon | diameter |
| square | properties | line of symmetry | octagon | scalene | axis of symmetry | circumference |
| circle | pyramids | properties | polygon | trapezium | reflective symmetry | dimensions |
| triangle | faces | edges | properties | rhombus |  | net |
| curved | characteristics | vertices | triangular prism | parallelogram |  | concentric |
| 3-d shapes | symmetry | vertex | hemisphere | kite |  | intersecting |
| cuboids |  | irregular |  | geometric shapes |  | dodecahedron |
| cubes |  | regular |  | quadrilaterals |  |  |
| cone |  | prism |  | polygon |  |  |
| spheres |  | surface |  | hexagon |  |  |
| flat |  | rectangular |  | oblong |  |  |
| straight |  | circular |  |  |  |  |
|  |  | triangular |  |  |  |  |
|  |  |  |  |  |  |  |


| Geometry - Properties of shape (2) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | point |  | orientations | rotate | reflex angles |  |
|  | cuboid |  | angles | reflection | degrees |  |
|  | cylinder |  | acute angle |  | one whole turn |  |
|  |  |  | obtuse angle |  | angles on straight line |  |
|  |  |  | turn |  | angles around a point |  |
|  |  |  | right angles |  | vertically opposite |  |
|  |  |  | half turn |  | missing angles |  |
|  |  |  | three quarters of a turn |  |  |  |
|  |  |  | greater than right angle |  |  |  |
|  |  |  | less than right angle |  |  |  |
|  |  |  | horizontal lines |  |  |  |
|  |  |  | vertical lines |  |  |  |
|  |  |  | perpendicular lines |  |  |  |
|  |  |  | parallel lines |  |  |  |


| Geometry - Position and direction |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| over | position | clockwise/anti-clockwise | compass | co-ordinates | reflection | four quadrants |
| under | direction | straight line | north | first quadrant | protractor | co-ordinate plane |
| between | movement | rotation | south | grid |  | reflex angle |
| around | whole turn | arrange | east | translation |  |  |
| through | quarter turn | sequences | west | plot |  |  |
| on | half turn | right angle | diagonal | polygon |  |  |
| into | three-quarter turn | rotate |  | axis |  |  |
| next to | anti-clockwise | right angle |  |  |  |  |
| behind | clockwise |  |  |  |  |  |
| beneath | forwards |  |  |  |  |  |
| order | backwards |  |  |  |  |  |
| repeat | underneath |  |  |  |  |  |
| patterns | centre |  |  |  |  |  |
| on top of |  |  |  |  |  |  |


| Statistics |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| count | sorting | pictograms | table | time graph | timetable | pie chart |
| sort | vote | tally chart | bar chart | discrete data | two-way tables | mean |
| group | table | block diagram | one-step problem | continuous data | Line graph | mode |
| list |  | category | two-step problem | line graph | maximum value | median |
|  |  | sorting | venn | comparison problem | minimum value | range |
|  |  | totalling | axis/axes | sum problem |  | dual bar charts |
|  |  | comparing |  | difference problem |  | horizontal axis |
|  |  | horizontal |  | calculate |  | vertical axis |
|  |  | vertical |  | interpret |  |  |
|  |  | axis |  | survey |  |  |


|  | rows |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | columns |  |  |  |  |
|  | block graph |  |  |  |  |
|  | most popular |  |  |  |  |

