# MATHS VOCABULARY AT PENSANS

| 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 thousand | millions |
| subitise | represent | count in multiples | descending | roman numerals | one hundred thousand | ten million |
| order/ordinal | multiples | place value | 10 or 100 more | 1000 more | powers of | |
| compare | partitioning | estimate | 10 or 100 less | 1000 less | integer | |
| forwards | ones | compare | hundreds | thousands | | |
| backwards | tens | | | round | | |
| numerals | | | | | | |
| digit | | | | | | |
| one more | | | | | | |
| one less | | | | | | |
| equal to | | | | | | |
| more than | | | | | | |
| less than (fewer) | | | | | | |

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

## Multiplication and division

| 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 | | | integer scaling problems | remainders | square numbers | |
| unequal | | | correspondence problems | | cube numbers | |
| share | | | derived facts | | short division | |
| group | | | | | product | |
| odd | | | | | dividend | |
| even | | | | | divisor | |
| | | | | | quotient | |
| | | | | | operations | |

## Fractions, Decimals and Percentages

| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|---|---|---|---|---|---|---|
| | whole | three quarters | tenths | decimal equivalence | fifth | |
| | half | third | | hundredths | thousandths | |
| | quarter | equivalent fractions | | conve rt | mixed numbers | |
| | equal parts | unit fractions | | proper fractions | per cent % | |
| | | non unit fractions | | improper fractions | factors | |
| | | numerator | | decimal point | integer | |
| | | denominator | | | complement s | |
| | | one whole | | | | |

| 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 |

| 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) | | estimate | perimeter | rectilinear figure | scaling | miles |
| narrow(er) | | order | | area | metric units | formulae |
| compare | | record results | | | imperial units | parallelograms |
| long(er)(est) | | centimetre cm | | | inches | triangles |
| short(er)(est) | | metre m | | | compound shape | feet |
| length | | | | | irregular shapes | |
| | | | | | square centimetres | |
| | | | | | square metres | |

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

| Measurement (Time) | | | | | | |
|---|---|---|---|---|---|---|
| **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| time | chronological order | Intervals of time | analogue clock | convert | | |
| quicker | *days of the week* | quarter past/to | roman numerals | | | |
| slower | *months of the year* | duration | 12-hour clock | | | |
| earlier | month | | 24-hour clock | | | |
| later | year | | a.m./p.m. | | | |
| before | o'clock | | noon | | | |
| after | half past | | midnight | | | |
| first | second | | leap year | | | |
| next | | | digital | | | |
| today | | | | | | |
| yesterday | | | | | | |
| tomorrow | | | | | | |
| morning | | | | | | |
| afternoon | | | | | | |
| evenin g | | | | | | |
| day | | | | | | |
| week | | | | | | |
| hour | | | | | | |
| minutes | | | | | | |

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

| Geometry –<br>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 | | circumference |
| circle | pyramids | properties | polygon | trapezium | | dimensions |
| triangle | faces | cylinder | properties | rhombus | | |
| characteristics | | edges | prism | parallelogram | | |
| 3-d shapes | | vertices | | kite | | |
| cuboids | | vertex | | geometric shapes | | |
| cubes | | | | quadrilaterals | | |
| cone | | | | | | |
| spheres | | | | | | |
| curved | | | | | | |
| straight | | | | | | |
| flat | | | | | | |

| | | | Geometry – Properties of shape (2) | | | |
|---|---|---|---|---|---|---|
| **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| | | | orientations | | reflex angles | |
| | | | angles | | degrees | |
| | | | 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 | | co-ordinates | reflection | four quadrants |
| under | direction | straight line | | first quadrant | | co-ordinate plane |
| between | movement | rotation | | grid | | |
| around | whole turn | arrange | | translation | | |
| through | quarter turn | sequences | | plot | | |
| on | half turn | | | polygon | | |
| into | three-quarter turn | | | axis | | |
| next to | | | | | | |
| behind | | | | | | |
| beneath | | | | | | |
| order | | | | | | |
| repeat | | | | | | |
| patterns | | | | | | |
| on top of | | | | | | |

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