Year 1 - introduce

Year 2 - introduce

**Maths Glossary of important vocabulary**

| KS1 | |
|---|---|
| addend | a number to be added to another |
| addition | combining a selection of numbers together to get a sum or total, the inverse of subtraction |
| algebra | the part of mathematics that deals with generalised arithmetic |
| analogue clock | a clock with 12 equal divisions and two hands that rotate around the centre |
| angle | measure of rotation - the amount of rotation required to turn one line segment onto another where the two line segments meet at a point |
| anticlockwise | in the opposite direction from the travel of hands on a clock |
| array | an ordered collected of counters, numbers etc. in rows and columns |
| associative | addition and multiplication are associative 2 + 3 = 5 is the same as 3 + 2 =5 etc. but subtraction and division are not |
| axis of symmetry | a line about which a shape is symmetrical |
| bar chart | a format for representing statistics - bars of equal width and the lengths of the bars are proportional to the results |
| binary operation | a rule for combining two numbers in a set to produce a third - addition, subtraction, multiplication and division |
| block graph | a simple format for representing statistical data - one block represents one observation |
| capacity | the volume of a material held in a vessel or container |
| cardinal number | denotes quantity |
| Carroll diagram | a sorting diagram which numbers or objects are classified as having a certain property or not having that property |
| categorical data | data arising from situations where categories are used |
| cent- | prefix meaning one hundredth |
| centilitre | unit of capacity - one hundredth of a litre - cl |
| centimetre | unit of linear measure - one hundredth of a metre - cm |
| chart | another word for table or graph |
| chronological | relating to events that occur in a time ordered sequence |
| circle | set of all points in a place which are at a fixed distance from the centre |
| circular | in the form of a circle<br>related to the circle |
| clockwise | in the direction in which the hands of a clock travel |
| column graph | a bar graph where the bars are vertical |
| common fraction | a fraction where the numerator and denominator are both integers |
| commutative | a binary operation - addition and multiplication not subtraction and division |
| compare | when two entities are compared looking for points of similarity and difference. |
| composite shape | a shape formed by combining two or more shapes |
| concrete objects | objects that can be handled and manipulated |
| cone | 3 dimensional shape with a circular base and a vertex |
| conjecture | an educated guess |
| consecutive | following in order |
| continuous data | data arising from measurements taken on a continuous variable |
| corner | a point where two or more lines meet |

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| count | the act of assigning one number name to each of a set of objects to determine how many there are |
| counter example | when a hypothesis or general statement is offered, an example that clearly disproves it |
| cube | a three dimensional figure with 6 identical square faces |
| cuboid | a three dimensional figure with 6 rectangular faces |
| cylinder | a three dimensional object - circular faces with a curved surface joining them |
| 2D 3D | 2 dimensional (lies in a plane) and 3 dimensional (occupies space) |
| data | information of quantitative nature consisting of counts or measurements |
| denomination | the face value of coins |
| diagram | a picture, geometric figure or a representation |
| difference | in maths different means the numerical difference between two numbers or sets of objects |
| digit | one of the symbols of a number system - 0 - 9 |
| digital clock | a clock that displays the time as hours and minutes |
| directed number | a number having a direction as well as a size |
| direction | the orientation of a line in space |
| divide | to carry out the operation of division |
| dividend | the number that is divided |
| division | an operation on numbers - sharing or grouping |
| double | to multiply by 2<br>the number that is twice another |
| edge | a line segment, joining two vertices of a figure |
| equal | symbol = - means having the same value as |
| equivalent fractions | fractions with the same value as another |
| even number | an integer that is divisible by 2 |
| exterior angle | of a polygon, the angle formed outside between one side and the adjacent side |
| face | one of the flat surfaces of a solid shape |
| facts | multiplication, division, addition and subtraction facts |
| fluency | conceptual understanding, procedural fluency and knowledge of facts |
| fraction | the result of dividing one integer by a second integer |
| frequency | the number of times an event occurs |
| general statement | a statement that applied correctly to all relevant cases |
| generalise | to formulate a general statement |
| geometrical | the aspect of mathematical concerned with the properties of shape |
| gram | g - unit of mass |
| hour | a unit of time - 1 hour = 60 mins |
| hundred square | a 10 by 10 square grid numbered 1 to 100 |
| inequality | when one number is not equal to another |
| infinite | always bigger than any number thought of |
| inverse operations | eg addition and subtraction/multiplication and division |
| kite | a quadrilateral with two pairs of equal adjacent sides |
| length | the extent of a line segment between two points |
| line | a set of adjacent points that has length but no width |
| litre | l - a metric unit for volume |
| mass | a characteristic of a body - relating to the amount of matter within it |
| maximum value | the greatest value |
| measure | the size of an agreed unit |

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| | verb - to find the size |
| measuring tools | these record numerical quantities of continuous variables |
| mental calculation | calculations that are carried out mentally |
| minimum value | least value |
| minus | - |
| minute | unit of time 1 minute = 60 seconds |
| missing number problems | eg 7 = ___ - 9 |
| multiple | for any integers a and b, a is a multiple of b if a third integer c exists so that a = bc |
| multiplicand | a number to be multiplied by another |
| multiplication | x 3 x 4 = 3 + 3 + 3 + 3 |
| multiplication table | an array setting out sets of numbers that multiply together |
| multiply | carry out the process of multiplication |
| notation | a convention for recording mathematical ideas |
| number bonds | a pair of numbers with a particular total |
| number line | a line where numbers are represented by points upon it |
| number sentence | a mathematical sentence involving numbers |
| number square | a square grid in which cells are numbered in order |
| number track | a numbered track along which counters might be moved |
| numeral | a symbol used to denote a number |
| oblong | non square rectangle |
| octagon | a polygon with 8 sides |
| operation | |
| ordinal number | a term that describe a position within an ordered set |
| partition | separate a set into subsets<br>split a number into component parts |
| pattern | a systematic arrangement of numbers, shapes etc |
| pentagon | a polygon with 5 sides |
| pictogram | a format for representing statistical information using pictures to represent objects |
| place value | the value of a digit that relates to its position or place in a number |
| plus | + |
| polygon | a closed plane figure bounded by straight lines |
| position | location as specified by a set of coordinates in a plane or in full 3 dimensional space |
| pound sterling | £ a unit of money |
| prism | a solid bounded by two congruent polygons that are parallel and parallelograms formed by joining the corresponding vertices of the polygons |
| product | the result of multiplying one number by another |
| property | any attribute |
| pyramid | a solid with a polygon as the base and one other vertex |
| quadrilateral | a polygon with 4 sides |
| quantity | something that has a numerical value |
| quarter turn | a rotation through $90^{o}$ |
| rectangle | a parallelogram with an internal angle of $90^{o}$, opposite sides are equal |
| relation | a common property of 2 or more items |
| repeated addition | the process of repeatedly adding the same number or amount |

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|---|---|
| repeated subtraction | the process of repeatedly subtracting the same number or amount |
| rotation | a transformation of the whole plane around a fixed point |
| rule | generally a procedure for carrying out a process |
| score | to earn points or goals in a competition |
| second | a unit of time<br>ordinal number |
| sequence | a succession of terms formed according to a rule |
| set | a well-defined collection of objects |
| share | one model from the process of division |
| side | a line segment that forms part of the boundary of a figure |
| sign | a symbol used to denote an operation |
| simple fraction | a fractions where the numerator and denominator are both integers |
| sort | to classify a set of entities into specified categories |
| square | a quadrilateral with four equal sides and four right angles<br>the square of a number is the product of the number and itself |
| standard unit | uniform units |
| subtract | carry out the process of subtraction |
| subtraction | the inverse operation to addition |
| subtrahend | a number to be subtracted from another |
| sum | the result of one or more additions |
| surface | a set of points defining a space in two or three dimensions |
| symbol | a letter numeral or other mark that represents a number |
| symmetry | reflection along a point |
| table | an orderly arrangement of information, numbers or letter usually in rows and columns |
| take away | subtraction as reduction |
| tally | make marks to represent objects counted - cross the $5^{th}$ |
| temperature | a measure of hotness of a body - measure by a thermometer or other form of heat sensor - unit $^{o}C$ or $^{o}F$ |
| time | |
| total | the sum found by adding |
| triangle | a polygon with three sides |
| triangular number | a number that can be represented by a triangular array of dots |
| turn | a rotation around a point |
| unit | a standard used in measuring |
| unit fraction | a fraction that has 1 as the numerator and whose denominator is a non 0 integer |
| vertex | the point at which two or more line intersect |
| vertical | at right angles to the horizontal plane<br>the up down direction on a graph or map |
| volume | a measure of three dimensional space |
| weight | the weight of a body is the force exerted on the body by the gravity of the earth |
| zero | 0 |