

## **Mathematics Mastery vocabulary list**

This document highlights the vocabulary introduced throughout the primary curriculum – from Reception to Year 6.

The vocabulary listed here is vocabulary that **pupils** are expected to use and understand on a daily basis within that year group, though the definitions are written for teacher reference and would not necessarily be shared with children as they stand. The vocabulary listed is cumulative and builds on the vocabulary previously introduced. Teachers should also consult with the Mathematics Mastery Primary Glossary.

This is a working document and will be updated as required.

Reception	Definition	Example
Above	Used to describe a higher position than another object.	The Maths Meetings board is <b>above</b> the sink.
Add	Carry out the process of addition.	I can <b>add</b> two numbers together to find a total.
Addition	The operation to combine at least two numbers or quantities to form a further number or quantity, the sum or total. Addition is the inverse operation to subtraction.	Three plus seven is equal to ten. This is an <b>addition</b> equation.
Altogether	In total.	That will be £2 altogether please.
Balance	A measuring tool used to weigh objects. It has two dishes hanging on a bar. Both dishes will be level when the contents weigh the same. Also, as a verb, indicates equivalence and equality.	The objects in the <b>balance</b> are unequal in weight because the dish on the right side is lower down that the dish on the left side.  The two objects <b>balance</b> which means they have the same mass.
Before	In front of or prior to.	The number '3' comes <b>before</b> '5' on the number line.
Below	Used to describe a lower position than another object.	The sink is <b>below</b> the Maths Meetings board.
Between	Indicates a position in relation to two other places or objects on either side.	The teacher is standing <b>between</b> two tables.
Capacity	The amount of liquid a container can hold.	This cup is full to <b>capacity</b> because it cannot hold any more water.
Circle	The name of a 2-D shape. A circle has a curved side.	
Clock	A tool used to measure time.	The <b>clock</b> shows us that the time is now 2 o'clock.
Compare	Look for similarities and/or differences between at least two objects or sets.	I can <b>compare</b> these two sets – this set has more.
Corner	A point where two or more lines meet. The correct mathematical term is vertex (vertices).	The table has four <b>corners</b> (vertices).
Cost	A monetary value assigned to a good or service.	This apple <b>costs</b> 10p. What coin could I use to pay for it?



		T
Count	Assigning one number name to	I <b>counted</b> the children in the group –
	each of a set of objects to	there are four so we will need four
	determine how many there are.	pencils.
Cube	A 3-D shape with six identical	
	square faces.	
Cuboid	A 3-D shape with six rectangular	
	faces.	
Curved surface	A non-plane surface of a 3-D	The cone has a <b>curved</b> surface.
	shape. Both cones and cylinders	
	have curved surfaces.	
Cylinder	A 3-D shape with two circular faces	
	joined by a curved surface.	
	, ,	
2-D	Abbreviation for two-dimensional. A	A square is a <b>2-D</b> shape.
	figure is two-dimensional if it lies on	, requare to a 2 2 onapor
	a plane.	
3-D	Abbreviation for three-dimensional.	A cylinder is a <b>3-D</b> shape.
3-0	A solid is three-dimensional and	A cylinder is a <b>o b</b> shape.
	occupies space.	
Describe		Can you describe the properties of a
Describe	To express mathematical features,	Can you <b>describe</b> the properties of a cube?
Difference	qualities and details in words.	The <b>difference</b> between ten and six is
Dillerence	The numerical difference between	
	two numbers or sets of objects. It is	four.
	found by comparing the quantity of	
D: ()	one set of objects with another.	
Direction	The orientation of a line in space.	Which direction should we jump –
		forwards or backwards?
Distance	A measure between two points or	The <b>distance</b> between my house and the
	things.	school is longer than that between the
		school and the train station.
Double	To multiply by two or add a value to	Ten is <b>double</b> five.
	itself.	
Edge	A line segment joining two vertices	A triangle has three <b>edges</b> and a cube
	of a plane figure (2-D shape) and	has 12 <b>edges</b> .
	the intersection of two plane faces	
	(in a 3-D shape).	
Empty	Containing nothing. Most	There is no more water left in the jug – it
	commonly used in the context of	is <b>empty</b> .
	measures.	
Equal	Indicates equivalence between two	My sets are <b>equal</b> because there are
'	values and can be expressed with	four bears in this set and there are four
	the symbol '='. The symbol is read	bears in this set.
	as 'is equal to' which means the	
	same as. Expressions on either	
	side of the symbol have the same	
	value.	
Face	One of the plane surfaces of a solid	A cube has six <b>faces</b> .
1 400	shape.	A CORDO TINO SIA INCOS.
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Fewer	A lesser amount – used when counting discrete objects, i.e.	There are <b>fewer</b> buttons on my coat than yours.
	countable objects such as, pens, teddies, counters, etc.	yours.
First	Comes before all others in time or position.	First I brush my teeth. Then I go to bed.
Flat	A level surface.	The table has a <b>flat</b> rectangular surface.
Full	Contains/holds as much or as many as possible; has no empty space.	The juice carton is not <b>full</b> because I drank some.
Group	To make equal size groups. This is one model for division.	I will <b>group</b> the crayons equally so that each person gets two.
Half	One of two equal parts of a shape, quantity or object.	I have shared the dolls into two equal groups – I have <b>half</b> and you have <b>half</b> .
Intersection of sets	Where the two subsets overlap in a Venn diagram. Objects or values which belong to both subsets are placed here.	The number 4 belongs in the intersection because it is even and less than 5.
Last	Comes after all others in time or order.	Rory is the <b>last</b> person in the line.
Length	A linear measurement.	The <b>length</b> of my snake is shorter than yours.
Less	A smaller amount or not as much.	I have 15p and you have 7p. you have less money than me.
Line	A set of adjacent points that has length but no width.	I have drawn a <b>line</b> matching the number four with the four ducks.
Long	An adjective used to describe length.	I have a <b>long</b> piece of string.
Mass	A measure relating to the amount of matter within a given object.	The <b>mass</b> of the school bag is greater than the <b>mass</b> of the book.
Measure	To find the size of something in a given unit.	How might we <b>measure</b> how much flour we need to bake a cake?
Minus	A name for the symbol '-', which denotes the operation of subtraction.	Three <b>minus</b> one is equal to two.
More	A greater amount.	I have six apples and you have two. I have <b>more</b> .
Next	Comes immediately after the present one in order.	The <b>next</b> shape in my pattern is a square.
Number bond	A pair of numbers with a given total.	Five and four make a <b>number bond</b> to nine.
Number line	A linear, continuous representation of number. Each number occupies a point on the line, and there is an equal interval between each number.	This <b>number line</b> starts at zero and ends at ten.
Number track	A linear, discrete representation of number. Each number is positioned in a square on the track.	I can count from one to ten, moving a counter along this <b>number track</b> .
Order	Describes the placement of items according to given criteria or in a pattern.  As a verb, to place items according to given criteria or in a pattern.	I have <b>ordered</b> the bears from smallest to biggest.



Pair	A set of two things used together.	Socks come in a <b>pair</b> – one for each foot.
Pattern	A systematic arrangement of numbers, shapes or other elements according to a rule.	The <b>pattern</b> is red, blue, red, blue, red blue.
Plus	The word representing the operation of addition. It is also the name for the symbol '+'.	Five apples <b>plus</b> two apples are equal to seven apples.
Rectangle	A quadrilateral with four right angles.	
Second	<ol> <li>A unit of time.</li> <li>An ordinal number.</li> </ol>	Mohsin is <b>second</b> in the line today.
Sequence	A series of numbers or other elements which follow a rule.	The number 3 is next in the <b>sequence</b> because each number is one less than the one before.
Set	A defined group of objects, numbers or other elements.	I have placed all the purple counters in this <b>set</b> because they are all the same colour.
Share	To distribute fairly between a given number of recipients. This is one model for division.	I will <b>share</b> the crayons equally between the people at the table.
Short	An adjective used to describe length.	This string will not reach to the door. It is too <b>short</b> .
Side	A straight line that forms part of the boundary of a shape.	This shape has four straight <b>sides</b> .
Size	An element's overall dimensions or magnitude.	The <b>size</b> of my shoe is smaller than my teacher's.
Sort	To organise a set of elements into specified categories.	I will <b>sort</b> these objects based on their size.
Square	A quadrilateral with four equal length sides and four right angles.	
Straight	A line or movement uniform in direction, without bends or curves.	The walls of the school are <b>straight</b> .
Subtract	Carry out the process of subtraction.	Nine <b>subtract</b> three is equal to six.
Subtraction	The inverse operation to addition.	We are taking some away so it is a <b>subtraction</b> question.
Sum	The result of one or more additions.	The <b>sum</b> of five and three is eight.
Surface	An outer boundary of a 3-D object.	This cone has a curved <b>surface</b> .
Take away	Used in the reduction structure of subtraction. To remove a number of items from a set.	He ate three of the sweets so we need to take away three counters.
Tall	Measuring a specific distance from top to bottom.	Our class teacher is not as <b>tall</b> as our head teacher.
Time	Related to duration. Measured in seconds, minutes, hours, days, weeks, months, years etc.	After lunch it will be <b>time</b> for P.E.
Total	The sum found by adding.	There are a <b>total</b> of five people at this table.
Triangle	A polygon with three sides.	



Venn diagram	Two or more circles which represent given sets and intersect according these.	blue shapes squares
Vertex (pl. vertices)	The point at which two or more lines intersect.	This shape has five <b>vertices</b> .
Weight	The force exerted on an object by gravity. Weight therefore changes with a change in gravitational force. Used interchangeably with mass until KS2.	The <b>weight</b> of this book is heavier than the pencil.
Zero	The number before one. It is neither positive nor negative.	<b>Zero</b> comes before one on the number track.

Year 1	Definition	Example
Analogue clock	A clock with a face and hands.	10 2 10 10 10 10 10 10 10 10 10 10 10 10 10
Anticlockwise	Movement in the opposite direction to the motion of the hands of a clock.	
Approximate	The number is not exact but it is close.	Our PSHE lesson lasts <b>approximately</b> half an hour.
Array	An arrangement of counters or numbers, in columns and rows, used to represent multiplication and division	This <b>array</b> shows $3 \times 4$ , $4 \times 3$ , $12 \div 4$ and $12 \div 3$
Block graph	The pre-cursor to the bar graph, this representation of data has an x- and y-axis and one block represents one item. Each block is adjoined to the adjacent block.	How children travel to school  5  4  4  2  1  walk bus car bike scooter
Chart	A table or graph.	I will mark one day for the sun on our weather <b>chart</b> .
Chronological	In time order.	I ordered the events in my day chronologically. I woke up, ate my breakfast, went to school then came home.
Clockwise	Movement in the direction of the hands of a clock.	C



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Cone	A 3-D shape with one circular plane face, which tapers to an apex.	
Continuous surface	An outer boundary of a 3-D object which is uninterrupted by any plane surfaces.	A sphere has a <b>continuous surface</b> .
Data	Quantitative information which has been counted or measured.	This block graph shows us <b>data</b> for the colour of the cars in the car park.
Decreasing	Becoming smaller in value. Used in relation to number sequences.	15, 14, 13, 12. This number pattern is decreasing by one each time.
Diagram	An illustration, drawing or representation.	I will draw a <b>diagram</b> to show how I programed my floor toy to move.
Digit	One of the ten Arabic numerals 0 to 9, from which we compose numbers.	The number 54 has the <b>digit</b> five in the tens column and the <b>digit</b> four in the ones. The <b>digit</b> five has a value of fifty.
Divide	To share or group into equal parts.	I can <b>divide</b> 12 by three using grouping or sharing.
Estimate	An appropriately accurate guess, depending on the context and numbers involved.	I <b>estimate</b> there are eight cubes in the cup because it looks about double four but fewer than ten.
Even number	A number with a 0, 2, 4, 6 or 8 in the ones and therefore exactly divisible by two.	32 is an <b>even number</b> .
Facts	Related to the four operations (+, -, x, ÷). Pupils should be supported in achieving fluency, i.e. very fast recall, in these facts. These then become <b>known facts</b> .	Number bonds to and within 10 and 20 are <b>facts</b> , e.g. 3 + 7 = 10.
Fraction	<ol> <li>A part of a whole number, quantity or shape.</li> <li>Expressing a division relationship between two integers in the form <sup>a</sup>/<sub>b</sub>.</li> </ol>	I have shared my sweets into four equal parts. Everyone will get a <b>fraction</b> of the whole quantity of sweets. One group is a quarter of the whole.
Half turn	A 180 degree rotation, i.e. $\frac{1}{2}$ of a 360 degree or 'full' turn.	
Hour	A unit of time.	There are 24 hours in one day.
Increasing	Becoming greater in value. Used in relation to number sequences.	2, 4, 6, 8. This number pattern is increasing by two each time.
Kilogram	A standard unit of mass, equal to 1000 grams.	The book has a mass of two <b>kilograms</b> .
Known fact	A number fact which has been committed to memory (or very fast recall) and can be applied fluently to various calculation strategies.	When I use the 'Make ten' strategy to add, I use <b>known facts</b> to partition the number I'm adding.
Left	Indicating the position or direction.	Make a quarter turn <b>left</b> and walk forward three steps.
Litre	A standard unit of volume, equal to 1000 millilitres.	The capacity of the jug is about half a <b>litre</b> .



Laciculation with a strategy. Simple jottings may aid a mental calculation.  Metre A standard unit of measure, equal to 100 centimetres.  Minute A unit of time.  Oblong A quadrilateral with two pairs of parallel sides of equal length.  An integer which is not divisible by two without a remainder.  Partition To split a number into two or more parts.  Place value A system for writing numbers, in which the value of a digit is defined by its position within the number.  Using a mental calculation and derivin facts because I know that four plus five equal to nine.  I estimate that the table is about a metral tall.  We will have lunch in five minutes.  All numbers which end in 1, 3, 5, 7 and are odd numbers.  The number 23 can be canonically partitioned (by place value) into 20 and 3, or non-canonically partitioned in many different ways, including 18 and 5, 17 and 6, etc.  Place value A system for writing numbers, in which the value of a digit is defined by its position within the number.  Using a mental calculation and deriving facts because I know that four plus five equal to nine.  I estimate that the table is about a metral tall.  We will have lunch in five minutes.  The numbers 23 can be canonically partitioned in many different ways, including 18 and 5, 17 and 6, etc.  In the number 452 written in base ten, the digit four has a value of 400, the five has a value of 50 and the two has a value of two.			1.14 plue 5 is equal to 10. I completed this
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Calculation.   Equal to nine.	calcalation.		
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		by its position within the number.	has a value of 50 and the two has a
Position   Location expressed either   The book is an the table. The clock is			value of two.
1 Oblition   Location, expressed either   The book is on the table. The clock is	Position	Location, expressed either	The book is <b>on</b> the table. The clock is
descriptively using positional hanging <b>above</b> the board.		descriptively using positional	hanging <b>above</b> the board.
prepositions, or specified by			
coordinates.			
, <b>,</b> , , , , , , , , , , , , , , , , ,	Pound (sterling)	_	Pounds sterling are written using the £
Kingdom. symbol. There are 100 pence in one		Kingdom.	, ·
pound sterling.	<u> </u>	A (4.7)	
Property Any attribute. A <b>property</b> of a triangle is that it has	Property	Any attribute.	
three straight sides and three vertices,			
	Di ma mai al	A 2 D alcare with a religional base	the sum of whose angles is 180 degrees.
Pyramid A 3-D shape with a polygonal base	Pyramid		
and otherwise triangular faces,			
which form edges with the base, and which meet at an apex.			hase
Quantity  An amount, in some cases given a A quantity of apples is placed on the	Quantity	•	A quantity of apples is placed on the
	Quantity		left-hand side of the balance. How many
kilogram masses will we need to place		Tramencal value.	· ·
on the right to balance the apples?			
	Quarter	One of four equal parts of a whole	•
	200.101		_
Quarter One of four equal parts of a whole, I have shared the eight conkers into four			is one <b>quarter</b> of the whole.
Quarter One of four equal parts of a whole, quantity or object.  I have shared the eight conkers into four equal groups – I have two conkers, while the content of the equal groups in the content of the content of the eight conkers into four equal groups.	Quarter turn	A 90-degree rotation, i.e. 1 of a 360	
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Repeated	A structure of division, where equal	I can use repeated subtraction to
subtraction	parts are subtracted and the	calculate 20 divided by four: 20 – 4 – 4 –
	number of equal parts summed to	4-4-4.
	calculate a quotient.	
Represent	To express or show a	I have used three blue cubes to
	mathematical concept using words,	represent the three oranges in the
	numerals and symbols, pictures,	question.
	diagrams, or concrete manipulatives.	I used a part-whole model to <b>represent</b> the addition question.
Right	Indicating the position or direction.	The picture is on the <b>right</b> -hand side of
Right	indicating the position of direction.	the board.
Rule	A consistent pattern which allows	2, 5, 8, 11, 14
	generalisation. Awareness of a rule	The <b>rule</b> is that each number is three
	allows a pupil to continue a	greater than the previous number.
	sequence or generate a related	Therefore, the next number in this
	sequence.	sequence will be 17.
Scales	An object used to measure mass.	The <b>scales</b> showed that the banana had a greater mass than the apple.
Sign	Synonymous with symbol in its	$20 \square 5 = 4$ . What is the missing <b>sign</b> ?
	mathematical context, e.g. +, -, ×,	
Standard unit	÷, =.	Standard units of mass include grams
Standard unit	A uniform measure, agreed upon as standard.	Standard units of mass include grams
	as standard.	and kilograms.  Standard units of length include
		centimetres, metres and kilometres.
		Standard units of volume and capacity
		include millilitres and litres.
Sphere	A 3-D shape with a continuous	A bowling ball is a <b>sphere</b> .
	surface, which is at all points	
	equidistant from its centre. It has	
	an infinite number of flat faces and	
	straight edges.	00 5 4 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Symbol	Synonymous with sign in its	$20 \square 5 = 4$ . What is the missing <b>symbol</b> ?
	mathematical context, e.g. +, -, $\times$ , $\div$ , =.	
Table	A structure organised into columns	The information for Thursday is not yet
	and rows, in which data can be	complete on the table because it is only
	recorded.	Wednesday.
Turn	Rotation (see half and quarter	A whole turn is 360 degrees. A half turn
	turn).	is 180 degrees. A quarter turn is 90
11.2		degrees.
Unit	An element considered as a	I regrouped ten ones for one <b>unit</b> of ten.
	single entity. Ten single	Unifive gubon can be used as surity of
	cubes can be grouped	Unifix cubes can be used as <b>units</b> of
	together to make a unit of ten.	measure, but these are not <b>standard</b> units.
	2. A unit of measure, which	units.
	can be standard or non-	
	standard.	
Volume	A quantity or amount of any	The bottle contains a <b>volume</b> of one litre
	substance and the 3-D space it	but its capacity is two litres. The bottle is
	fills.	half full.



Year 2	Definition	Example
Angle	The amount of turn, measured in degrees.	The <b>angle</b> is 60 degrees.
Calculate	To compute or work out mathematically.	Can you <b>calculate</b> the answer to 13 + 4?
Centimetre	A metric unit of length.	The book is 15 <b>centimetres</b> long.
Column	A vertical arrangement of numbers or objects.	23 has two tens – I will place them into the tens <b>column</b> .
Commutative	A property of addition and multiplication. It does not matter in which order the addends or factors are added or multiplied; the result will be the same.	4 + 6 = 10 6 + 4 = 10 This demonstrates that addition is <b>commutative</b> . Arrays demonstrate the <b>commutativity</b> of multiplication, i.e. 3 × 4 = 4 × 3
Consecutive	Following in order.	2, 3, 4, 5, 6 are <b>consecutive</b> numbers. 3, 6 and 9 are <b>consecutive</b> multiples of 3.
Denominator	The number written below the vinculum in a fraction. In a measure context, it indicates the number of equal parts into which the whole is divided. In a division context, it is the divisor.	In the fraction one quarter, four is the denominator.
Division	The process of partitioning a whole into equal parts.	12 divided by 3 is equal to 4.
Efficient	Well-organised. Choosing an efficient computation strategy requires consideration of the numbers involved and will normally utilise 'known facts'.	I will use my number bonds knowledge to calculate 22 + 7 <b>efficiently</b> . I know that 2 + 7 is equal to 9, so the answer is 29. That's more efficient that counting on seven.
Frequency	The number of times something occurs within a data set.	4 pupils have brown hair. The <b>frequency</b> of brown hair is 4.
Gram	A metric unit of mass.	The pencil weighs 20 <b>grams</b> .
Heptagon	A polygon with seven sides and seven angles.	
Hexagon	A polygon with six sides and six angles.	
Inverse operations	Opposite operations that 'undo' each other.	Addition and subtraction are <b>inverse</b> operations.
Millilitre	A metric unit of capacity/volume.	The can of fizzy drink has a capacity of 330 millilitres.
Multiple	The result of multiplying a number by an integer, for example, 12 is a multiple of 3 and 4 because 3 x 4 = 12.	36 is a <b>multiple</b> of three because three multiplied by 12 is equal to 36. It is also a <b>multiple</b> of 12 for the same reason (and 1, 2, 4, 6, 9, 18 and 36).
Multiplication	One of the four mathematical operations. Multiplication can be understood as repeated addition or scaling (introduced in Year 3).	The multiplication symbol is x.
Multiply	To increase a quantity by a given scale factor.	I can <b>multiply</b> 3 by 4 which is equal to 12.



Near double	When two numbers involved in an addition are close in value, such as 23 + 22. The numbers can be treated as exact doubles, followed by compensating.	To calculate 23 + 22, I can use the <b>near double</b> strategy. I can double 22 and then add one more.
Non-unit fraction	A fraction with a numerator greater than one.	Two thirds is a <b>non-unit fraction</b> .
Numerator	The number written above the vinculum in a fraction. In a measure context, it indicates the specified number of parts out of the whole. In a division context, it is the dividend.	In the fraction one quarter, one is the numerator.
Octagon	A polygon with eight sides and eight angles.	
Operation	A mathematical process. The four mathematical operations are addition, subtraction, multiplication and division.	4 + 2 = 6. The <b>operation</b> is addition.
Pentagon	A polygon with five sides and five angles.	
Pictogram	A representation of data using pictures or symbols.	France Germany America China Australia Each stands for 10 people.
Quadrilateral	A 2D shape with four sides and four angles. which add up to 360 degrees.	
Relationship	The way in which two or more things are connected.	The <b>relationship</b> between addition and subtraction is that they are the inverse of each other.
Right angle	An angle of 90 degrees.	A square has four <b>right angles</b> .
Rotation	The act of rotating about an axis/centre.	I will <b>rotate</b> the square 90 degrees clockwise.
Scale	Equally spaced markings on a measuring device which can be read to quantify a measurement.	Using the <b>scale</b> on the ruler, the book measures 15cm.
Symmetry	A shape is symmetrical when it fits exactly onto itself when folded in half.	This triangle has one line of <b>symmetry</b> .
Tally	A form of counting. Each tally is a vertical mark. After the fourth vertical mark, a fifth	Four children have black hair; I will record this as four <b>tallies</b> .



	horizontal/diagonal mark is drawn to create a group of five.	
Temperature	The measure of heat.	Outside has a <b>temperature</b> of 15 degrees Celsius.
Unit fraction	A fraction with a numerator of one.	One-third is a <b>unit fraction</b> .
Vinculum	A horizontal line that separates the numerator and the denominator in a fraction.	$\frac{1}{4}$ vinculum

Year 3	Definition	Example
Acute angle	An angle that is smaller than a right angle.	It is smaller than my right angle checker so this must be an <b>acute angle</b> .
Axis (plural: axes)	A real or imaginary reference line. The y-axis (vertical) and x-axis (horizontal) on charts and graphs are used to show the measuring scale or labels for the variables.	The y-axis on this bar graph shows you how many pupils preferred each colour.
Bar graph	A representation of data in which the frequencies are represented by the height or length of the bars.	This <b>bar graph</b> shows us the preferred colours of the pupils in our Year 3 class.
Columnar addition/subtraction	The formal written algorithms for addition and subtraction that are exemplified in <i>Mathematics Appendix 1</i> of the 2014 national curriculum.	Solve the following calculations by using the appropriate method of <b>columnar</b> addition or <b>subtraction</b> .
Factor	A number, that when multiplied with one or more other factors, makes a given number.	The number six has four <b>factors</b> : 1, 2, 3 and 6.
Formal written methods	Exemplified in <i>Mathematics</i> Appendix 1 (see above). As well as including columnar addition and subtraction, these also consist of written algorithms for multiplication and division.	Pupils should only use <b>formal written methods</b> for calculations that cannot be efficiently calculated using mental strategies (with or without jottings).
Horizontal	Horizontal refers to planes and line segments that are parallel to the horizon.	The x-axis on a graph should be horizontal.
Irregular	In geometry, irregular is a term used to describe shapes that are not regular (see below).	The sides and the angles of this pentagon are not all equal so the pentagon is <b>irregular</b> .
Kilometre	A metric unit measure of length that is equal to one thousand metres.	The distance from the school to Arun's house was exactly one <b>kilometre</b> .
Millimetre	A metric unit measure of length that is equal to one thousandth of one metre.	The length of Philippa's ruler is 300 millimetres.



Numeral	A numeral is a symbol (or group of symbols) used to represent a	Whole numbers can all be represented as <b>numerals</b> consisting of the digits 0 to
	number.	9.
Obtuse angle	An angle that is greater than a right angle but less than 180 degrees.	It is greater than my right angle checker so this angle must be <b>obtuse</b> .
Parallel	Line segments that can be described as parallel must be on the same plane and will never meet, regardless of how far either or both line segments are extended.	The opposite sides of a square are parallel.
Perimeter	The perimeter of a 2-D shape is the total distance around its exterior.	I know that one side of this square is 2cm so it must have a <b>perimeter</b> of 8cm.
Perpendicular	A pair of line segments (or surfaces) can be described as perpendicular if they intersect at (or form) a right angle.	The adjacent sides of a rectangle are perpendicular.
Place holder	A place holder is a zero used in any place value column (that contains a value of zero) to clarify the relative positions of the digits in other places.	I need to use a <b>place holder</b> in the ones column to make it clear that my number is 320 and not 32.
Prism	A prism is a 3-D solid with two identical, parallel bases and otherwise rectangular faces.	A triangular <b>prism</b> has five faces, consisting of three rectangles and two triangles which are parallel.
Product	The result you get when you multiply two numbers.	24 is the <b>product</b> of 3 and 8.
Regular	Regular 2-D shapes (regular polygons) have angles that are all equal and side lengths that are all equal.  Regular 3-D shapes (the Platonic Solids) are those that have congruent (exactly the same) faces of a single regular polygon.	A square is a <b>regular</b> 2-D shape because all four angles are right angles and all four sides are the same length. A cube is a <b>regular</b> 3-D shape with six identical square faces.
Roman numeral	Roman numerals are a system of symbols used to represent numbers that were developed and used by the Romans. They do not use a place value system.	The number twelve on this clock is represented by the <b>Roman numerals</b> XII, which is 10 + 1 + 1.
Round	Approximate a number, normally to the nearest multiple of ten, to make it easier with which to calculate.	I would <b>round</b> the number 17 to 20 because it is three away from 20 but seven away from 10.
Square-based pyramid	A pyramid is a 3-D shape with a 2-D shape (which gives the pyramid its name) as a base	This <b>square-based pyramid</b> has five faces; one square face and four triangular faces.
Triangle-based pyramid	and triangular faces that taper to a point called a vertex or apex.	This <b>triangle-based pyramid</b> has four triangular faces.



Year 4	Definition	Example
Area	The space a surface takes up inside its perimeter. Area is always measured in square units.	The <b>area</b> is 8 square units.
Associative law	No matter how the parts in an addition or multiplication equation are grouped, the answer will be the same.	(6 + 3) + 2 = 11 6 + (3 + 2) = 11 Addition and multiplication are associative. Subtraction and division are not.
Convert	To change from one unit of measurement to another.	2 km can be <b>converted</b> to metres – it is equal to 2000 m.
Coordinate	The position of a point, usually described using pairs of numbers. Sometimes called Cartesian coordinates, after the mathematician Rene Descartes.	The <b>coordinate</b> (3,4) describes a point that is 3 on the x axis and 4 on the y axis.
Decimal fraction	A fraction expressed in its decimal form.	Half written as a decimal fraction is 0.5.
Distributive law	The process whereby adding some numbers and then multiplying the sum gives the same answer as multiplying the numbers separately and then adding the products.	$3 \times (2 + 4) = (3 \times 2) + (3 \times 4)$ $3 \times 12 = (3 \times 10) + (3 \times 2)$
Dividend	The amount that you want to divide.	In '12 $\div$ 3 = 4', 12 is the <b>dividend</b> .
Divisor	The number you divide by.	In '12 $\div$ 3 = 4', 3 is the <b>divisor</b> .
Equilateral	Having all sides the same length.	An <b>equilateral</b> triangle has three equal sides.
Equivalent	Equivalent means having the same value. Equivalent fractions have the same value.	$\frac{2}{4} = \frac{1}{2}$
Expression	One or a group of numbers, symbols or operators. An expression does not use equality or inequality signs.  Using an equality or inequality sign will give an equation.	2 × 3 4 <sup>2</sup>
Grid	A series of evenly divided and equally spaced shapes, usually squares.	
Improper fraction	A fraction where the numerator is bigger than the denominator. These fractions are therefore greater than one whole.	12 11
Integer	A whole number that can be positive or negative.	6 is an integer, 0.6 is not.
Interval	An interval on a graph's axis lies between two values.	If one point on an axis is 50 and the next 60, the <b>interval</b> is 10.



Isosceles	Having two sides of equal	,
	length. Isosceles triangles have	
	two equal sides; isosceles trapezia have two equal, non-	
	parallel sides.	
Kite	A 2-D shape with two pairs of	
	equal length adjacent sides. The	
	diagonals intersect at right angles.	
Line graph	A graph that uses lines to	
	connect the points on a data	Temperature graph
	chart.	
	Used to present continuous data, such as change over time.	14 16 17 20
	data, odon do change over anno.	0
Mixed numbers	Numbers consisting of an	8:00am 10:00am 12:00 noon 2:00pm 4:00pm 1 1; 3 3/4
	integer and fractional part.	2, 4
Negative number	A number that is less than zero.	-1, -24, -o.5 etc.
	(It is helpful to refer to these numbers as 'negative numbers'	
	rather than 'minus' to avoid	
	confusion with the operation	
	'minus'.)	
Parallelogram	A 2-D shape that has two pairs	
	of parallel sides and equal opposite angles.	
Plot	To mark out a point on a graph	'Plot the point (3,6)' means to draw the
	or grid.	precise location of that point, usually
Point	The precise location of a	shown as a dot or a small cross.  An exact place on a graph or on squared
1 Olit	position on a 2-D plane.	paper. A <b>point</b> is often represented by a
	·	capital letter.
		. B C
		•^
Positive number	A number that is greater than	3, 32, 0.5
	zero. Zero is neither positive or	
Proper fraction	negative.  A fraction with a value less than	1 3 5
1 Toper fraction	one.	2,4,8
Protractor	A measuring device for	3 10 2 3
. 701140101	measuring the size of an angle.	
	Angles are measured in degrees	018
Quotiont	(°). The result when the dividend is	15 ÷ 3 = <b>5</b>
Quotient	divided by the divisor.	15 ÷ 3 = 5 5 is the <b>quotient</b> .
Rectilinear	A rectilinear shape has straight	A rectangle.
	line edges which are	A straight-sided shape that can be
	perpendicular (all meet at right	divided up into other rectangles.
	angles).	
	<u>l</u>	



Rhombus	An equilateral parallelogram with four equal length sides.	
Scalene	A scalene triangle has three unequal sides and three unequal angles.	
Short division	A formal written layout where the quotient is calculated showing only one written step.	77 \$ 385
Short multiplication	A formal written layout where the multiplier is usually 9 or less.	782 <u>× 9</u> 7038
Simplify	To write a number or equation in its simplest form.	I can <b>simplify</b> $\frac{8}{10}$ to $\frac{4}{5}$ .
Square centimetre	A unit of measure for area equal to a square with the dimensions 1 cm by 1cm.	Sometimes referred to as centimetre squared, abbreviated to <b>cm</b> <sup>2</sup> .
Trapezium	A quadrilateral with exactly one pair of parallel sides.	

Year 5	Definition	Example
Angle at a point	Angles that meet at a point that sum to 360°.	110° 50° 70°
Angle on a line	Angles formed on a straight line that sum to 180°.	125° b°
Average (mean)	A measure of central tendency. The mean average of a set of data is the sum of the quantities divided by the number of quantities.	The <b>mean average</b> of the set 4, 5, 5, 6 is 5 because $(4 + 5 + 5 + 6) \div 4 = 5$ .
Common factor	A factor of two (or more) given numbers.	A <b>common factor</b> of 12 and 9 is 3 because $3 \times 4 = 12$ and $3 \times 3 = 12$ .
Common multiple	A multiple of two (or more) given numbers.	A <b>common multiple</b> of 3 and 6 is 12 because $3 \times 4 = 12$ and $6 \times 2 = 12$ .
Congruent	Used to describe two shapes or figures which are exactly the same size.	The two triangles are <b>congruent</b> . If I place one on top of the other, there is no overlap.
Cube number	The product of three equal factors.	Eight is a <b>cube number</b> because $8 = 2 \times 2 \times 2 = 2^3$ .
Cubic centimetre	A unit used to measure volume. The space taken up by a cube with edges of length 1 cm or	The volume of this multilink cube is eight cubic centimetres.



	which measures 1 cm × 1 cm ×	
	1 cm.	
Cubic metre	A unit used to measure volume. The space taken up by a cube with edges of length 1 metre.	The volume of this fridge is two <b>cubic</b> metres.
Decagon	A polygon with ten sides and ten angles.	$\searrow$
Degree	The unit of measure for angles.	A right angle is 90 <b>degree</b> s.
Diagonal	A straight line segment that joins one vertex to another.	The diagonals kite are perpendicular of a
Divisible	A number is said to be divisible by another if it can be divided by that number without a remainder.	24 is <b>divisible</b> by 8. When divided by 8 it gives a quotient of 3, with no remainder.
Dodecagon	A polygon with twelve sides and twelve angles.	
Long division	The formal written algorithm that can be used to divide by a number with two or more digits.	3 4 12 4 0 8 3 6 4 4 8 4 8 0
Long multiplication	The formal written algorithm that can be used to multiply a number by a number with two or more digits.	3 4 × 1 2 6 8 3 4 0 4 0 8
Negative integer	A whole number with a value less than zero. Zero is neither positive nor negative.	When the temperature falls below 0° a negative integer is used to record it.
Nonagon	A polygon with nine sides and nine angles.	02
Percentage	The number of parts per hundred which is written using the % symbol.	30% means for every 100 there are 30.
Polygon	A 2-D shape with three or more straight sides.	Triangles and rectangles are examples of polygons.
Polyhedron (pl. polyhedra)	A 3-D shape with flat surfaces that are polygons.	A cuboid is a <b>polyhedron</b> . A cylinder is not a <b>polyhedron</b> because it has a curved surface.
Prime factor	A factor that is a prime number.	3 and 2 are <b>prime factors</b> of 6.



Prime number	A whole number with only two factors, one and the number itself.	2, 3, 5, 7, 11, 13, 17 and 19 are the <b>prime numbers</b> less than 20.
Remainder	The amount remaining after division when a whole number answer is needed.	21 divided by four is equal to five with a remainder of 1.
Reflection	A mirror image that is equidistant from a mirror line.	The shape has been <b>reflected</b> in the dotted mirror line.
Reflex angle	An angle that is greater than 180°.	
Scale (not to scale)	The ratio of lengths, in a drawing, are in proportion to the measurements of the real object. The lengths are not in proportion when not to scale.	The diagram was not drawn <b>to scale</b> .  That means I can't use a ruler to measure the sides, because they are not in proportion to the real object.
Square metre	A unit of measure for area. The surface covered by a square with sides of length one metre.	The area of the floor in a room might be measured in <b>square metres</b> .
Square number	The product of two equal factors.	9 is a <b>square number</b> because $9 = 3 \times 3$ = $3^2$ .
Tetrahedron	A 3-D shape with four triangular faces.	
Transformation	A collective term for the ways that shapes can be changed, resulting in congruent or similar shapes, i.e. translation, reflection, rotation or enlargement.	Translations and reflections are types of transformations.
Translation	When a shape moves so that it is in a different position but retains the same size, area, angles and side length and so is congruent.	Triangle C has been translated three right and two down resulting in triangle D.



Year 6	Definition	Example
Arc	A portion of the circumference of a circle	
Brackets	The symbols () used to separate parts of a multi-step calculation.	$(10-2) \times 3 = 21$
Centre	In a circle, the centre refers to one point that is equidistant to all points around the circumference of the circle.	To draw a circle, I place the point of my pair of compasses at the <b>centre</b> .
Circumference	The perimeter/boundary of a circle.	
Compasses	A tool for creating curved lines, arcs and circles.	I can use a pair of <b>compasses</b> to draw a circle with a radius of 4 cm.
Common fraction	A fraction written with a numerator and denominator separated by a vinculum.	One quarter can be written as a common fraction, $\frac{1}{4}$ .
Degree of accuracy	A description of how accurately a value is communicated.	The <b>degree of accuracy</b> needed for the answer is one decimal place.
Diameter	A line from one point of the circumference of a circle to another on the opposite side, which must pass through the centre of the circle.	The circumference of a circle is the diameter multiplied by pi.
Equivalent expression	An expression, which can be algebraic, which is equal in value to another expression.	Find an <b>equivalent expression</b> to 17 + 10. 18 + 9 is an <b>equivalent expression</b> to 17 + 10.
Factorise	To identify factors of a given number. To express a number as factors.	I can <b>factorise</b> 12 by looking at its factor pairs. $1 \times 12 = 12$ , $2 \times 6 = 12$ , $3 \times 4 = 12$ . So the factors of 12 are 1, 2, 3, 4, 6 and 12.
Foot/feet	An imperial unit of measure of length.	I am approximately five <b>feet</b> tall.
Formula	An algebraic expression of a rule.	The area of a rectangle can be found by multiplying the width and height. <b>a</b> = <b>w</b> × <b>h</b>
Gallon	An imperial unit of measure of volume/capacity.	A <b>gallon</b> is approximately 4.5 litres
Imperial unit	A unit of measure once officially used in the UK but is now used less often, except in the context of length. Includes miles, pounds and pints.	Miles are an <b>imperial unit</b> to measure length.
Inch Intersect	An imperial unit of measure.  The point at which two (or more)	An <b>inch</b> is approximately 2.2 cm.  The x and y axes <b>intersect</b> at (0,0)
HIGISCUL	lines meet is where they intersect.	THE A and y axes intersect at (0,0)



Metric unit	A standard unit of measure used	Litres are a <b>metric unit</b> used to measure
wethe unit	in the UK and Europe. Includes	volume.
	centimetres, litres and	volume.
	kilograms.	
Mile	An imperial unit of measure of	Five <b>miles</b> is equivalent to eight
IVIIIC	length.	kilometres.
Net	A group of 2-D shapes which,	The <b>net</b> of a cube is comprised of six
	when folded and connected,	connected squares.
	forms a 3-D polyhedron.	'
Order of operations	The internationally agreed order	$(3+4) \times 2 = \Box$
·	to complete operations in a	The <b>order of operations</b> dictates that
	multi-step equation with multiple	the operation within the brackets is
	operations.	completed first.
Origin	The point at which axes in a	10
-	coordinates grid cross; the point	0
	(0,0).	•
		2
		-12 -10 -8 -6 -4 -2 7 2 4 6 8 10 12
		The <b>origin</b> is indicated by the blue dot.
Ounce	An imperial unit of measure of	The newborn baby had a mass of 6
	mass.	pounds and 3 ounces.
Pie chart	A representation of a set of data	Nationality of Astronauts
	where each segment represents	on Board ISS January
	one group in proportion to the	2017
	whole.	2017
		☑ Russia ☑ USA ☑ France
		Nussia OSA France
Pint	An imperial unit of measure.	I found a <b>pint</b> of milk on my doorstep.
Pound (mass)	An imperial unit of measure of	The new-born baby had a mass of 6
	mass.	pounds and 3 ounces.
Proportion	A comparison between two or	Two thirds of a class were boys. The
	more parts of a whole or group.	proportion of the class that is girls is
	Proportion expresses a part-	one third.
	whole relationship. This may be	
	represented as a fraction, a	
	percentage or a decimal.	
Quadrant	One of four regions into which a	
	coordinates grid is divided.	Second First Quadrant
		Quadrant Positive x and y Negative x,
		positive y Values
		Fourth
		Third Quadrant Quadrant
		Negative x, Positive x,
		negative y negative y



Radius	A line from one point of the	
Radius	A line from one point of the circumference of a circle to the centre of the circle.	
Ratio	A comparison between two or	For every 4 tulips there are 7 daffodils.
	more parts of a whole or group.	The <b>ratio</b> of tulips to daffodils is 4:7.
	Ratio expresses a part-part	
	relationship. This is usually	
O'maile m	represented in the form a:b.	All courses are circles to one conflict
Similar	Similar shapes are those which	All squares are <b>similar</b> to one another.
	have the same internal angles and where the side lengths are	
	in the same ratio or proportion.	
	Enlarging a shape by a scale	
	factor (for example by doubling	
	all side lengths) creates a	
	similar shape.	
Square millimetre	The area of a square with sides	The smallest squares on graph paper
	1 mm.	have an area of one square millimetre.
Square kilometre	The area of a square with sides	The area of England is 130 279 <b>square</b>
	1 km.	kilometres.
Vertically opposite	Angles which are positioned	
angles	opposite to one another when two lines intersect.	
	two lines intersect.	
		The purple angles indicated are
		vertically opposite angles.