

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.

Reception	Definition	Example
Above	Used to describe a higher position than another object.	The Maths Meetings board is above the sink.
Add	Carry out the process of addition.	I can add 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 addition 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 balance are unequal in weight because the dish on the right side is lower down that the dish on the left side. The two objects balance which means they have the same mass.
Before	In front of or prior to.	The number '3' comes before '5' on the number line.
Below	Used to describe a lower position than another object.	The sink is below the Maths Meetings board.
Between	Indicates a position in relation to two other places or objects on either side.	The teacher is standing between two tables.
Capacity	The amount of liquid a container can hold.	This cup is full to capacity 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 clock 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 compare these two sets – this set has more.

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



Corner	A point where two or more lines meet. The correct mathematical	The table has four corners
	term is vertex (vertices).	(vertices).
Cost	A monetary value assigned to a good or service.	This apple costs 10p. What coin could I use to pay for it?
Count	Assigning one number name to	I counted the children in the
	each of a set of objects to determine	group – there are four so we will
Ortha	how many there are.	need four pencils.
Cube	square faces.	
Cuboid	A 3-D shape with six rectangular faces.	
Curved surface	A non-plane surface of a 3-D shape. Both cones and cylinders have curved surfaces.	The cone has a curved surface.
Cylinder	A 3-D shape with two circular faces joined by a curved surface.	
2-D	Abbreviation for two-dimensional. A figure is two-dimensional if it lies on a plane.	A square is a 2-D shape.
3-D	Abbreviation for three- dimensional. A solid is three- dimensional and occupies space.	A cylinder is a 3-D shape.
Describe	To express mathematical features, qualities and details in words.	Can you describe the properties of a cube?
Difference	The numerical difference between	The difference between ten and
	two numbers or sets of objects. It is found by comparing the quantity of one set of objects with another.	six is four.
Direction	The orientation of a line in space.	Which direction should we jump – forwards or backwards?
Distance	A measure between two points or things.	The distance between my house and the school is longer than that between the school and the train station.
Double	To multiply by two or add a value to itself.	Ten is double five.
Edge	A line segment joining two vertices of a plane figure (2-D shape) and the intersection of two plane faces (in a 3-D shape).	A triangle has three edges and a cube has 12 edges .
Empty	Containing nothing. Most commonly used in the context of measures.	There is no more water left in the jug – it is empty .
Equal	Indicates equivalence between two values and can be expressed with the symbol '='. The symbol is read as 'is equal to' which means the	My sets are equal because there are four bears in this set and there are four bears in this set.



	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 faces .
	shape.	
Fewer	A lesser amount – used when	There are fewer buttons on my
	counting discrete objects, i.e.	coat than yours.
	countable objects such as, pens,	
	teddies, counters, etc.	
First	Comes before all others in time or	First I brush my teeth. Then I go
	position.	to bed.
Flat	A level surface.	The table has a flat rectangular
		surface.
Full	Contains/holds as much or as	The juice carton is not full
	many as possible; has no empty	because I drank some.
	space.	
Group	To make equal size groups. This is	I will group the crayons equally
	one model for division.	so that each person gets two.
Half	One of two equal parts of a shape,	I have shared the dolls into two
	quantity or object.	equal groups – I have half and
		you have half .
Intersection of	Where the two subsets overlap in a	The number 4 belongs in the
sets	Venn diagram. Objects or values	intersection because it is even
	which belong to both subsets are	and less than 5.
	placed here.	
Last	Comes after all others in time or	Rory is the last person in the
	order.	line.
Length	A linear measurement.	The length 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	I have drawn a line matching the
	length but no width.	number four with the four ducks.
Long	An adjective used to describe	I have a long piece of string.
	length.	
Mass	A measure relating to the amount	The mass of the school bag is
	of matter within a given object.	greater than the mass of the
Manager		DOOK.
Measure	To find the size of something in a	How might we measure how
	given unit.	much flour we need to bake a
Minara	A manual familie annucleal (' authich	cake?
Minus	A name for the symbol -, which	Three minus one is equal to
	denotes the operation of	two.
More		I have sin apples and your have
More	A greater amount.	Thave six apples and you have
Mort	Com og immediatole often the	two. I have more .
Next	Comes immediately after the	The next shape in my pattern is
Number her d	A pair of numbers with a niner	a square.
Number bond	A pair of numbers with a given	Five and four make a number
Number	tutal.	This number line starts start
number line	A linear, continuous representation	and and a st top
	or number. Each number occupies	and enus at ten.
	a point on the line, and there is an	
	equal interval between each	
	number.	



Number track	A linear, discrete representation of	I can count from one to ten,
	number. Each number is	moving a counter along this
	positioned in a square on the track.	number track.
Order	Describes the placement of items	I have ordered the bears from
	according to given criteria or in a	smallest to biggest.
	pattern.	
	As a verb, to place items according	
	to given criteria or in a pattern.	
Pair	A set of two things used together.	Socks come in a pair – one for
		each foot.
Pattern	A systematic arrangement of	The pattern is red, blue, red,
	numbers, shapes or other elements	blue, red blue.
	according to a rule.	
Plus	The word representing the	Five apples plus two apples are
	operation of addition. It is also the	equal to seven apples.
	name for the symbol '+'.	
Rectangle	A quadrilateral with four right	
	angles.	
Second	1. A unit of time.	Mohsin is second in the line
~	2. An ordinal number.	today.
Sequence	A series of numbers or other	The number 3 is next in the
	elements which follow a rule.	sequence because each number
		is one less than the one before.
Set	A defined group of objects,	I have placed all the purple
	numbers or other elements.	counters in this set because they
Chara	To distribute fairly between a sizen	are all the same colour.
Share	number of reginients. This is one	hotwaan the people at the table
	model for division	between the people at the table.
Short	An adjactive used to describe	This string will not reach to the
SHOL	length	door It is too short
Side	A straight line that forms part of	This shape has four straight
blue	the boundary of a shape	sides
Size	An element's overall dimensions or	The size of my shoe is smaller
0120	magnitude	than my teacher's
Sort	To organise a set of elements into	I will sort these objects based on
2010	specified categories.	their size.
Square	A quadrilateral with four equal	
1	length sides and four right angles.	
Straight	A line or movement uniform in	The walls of the school are
	direction, without bends or curves.	straight.
Subtract	Carry out the process of	Nine subtract three is equal to
	subtraction.	six.
Subtraction	The inverse operation to addition.	We are taking some away so it is
	_	a subtraction question.
Sum	The result of one or more	The sum of five and three is
	additions.	eight.
Surface	An outer boundary of a 3-D object.	This cone has a curved surface .
Take away	Used in the reduction structure of	He ate three of the sweets so we
	subtraction. To remove a number	need to take away three
	of items from a set.	counters.



Tall	Measuring a specific distance from top to bottom.	Our class teacher is not as tall as our head teacher.
Time	Related to duration. Measured in seconds, minutes, hours, days, weeks, months, years etc.	After lunch it will be time for P.E.
Total	The sum found by adding.	There are a total 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 vertices .
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 weight of this book is heavier than the pencil.
Zero	The number before one. It is neither positive nor negative.	Zero comes before one on the number track.

Year 1	Definition	Example
Analogue clock	A clock with a face and hands.	
Anticlockwise	Movement in the opposite direction to the motion of the hands of a clock.	\bigcirc
Approximate	The number is not exact but it is close.	Our PSHE lesson lasts approximately half an hour.
Array	An arrangement of counters or numbers, in columns and rows, used to represent multiplication and division	This array shows 3 × 4, 4 × 3, 12 ÷ 4 and 12 ÷ 3



Block graph	The pre-cursor to the bar	How children travel to school
01	graph, this representation of	5
	data has an x- and y-axis and	
	one block represents one item	4 ق
	Each block is adjoined to the	
	adjacent block	er of
	adjacent block.	g 2
		1
		walk bus car bike scooter
Chart	A table or graph.	I will mark one day for the sun
		on our weather chart .
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	school their came nome.
CIOCRWISE	the hands of a clock	
	the hands of a clock.	
Cono	A a D shana with and simeular	
Cone	A 3-D shape with one circular	
	plane face, which tapers to an	
	apex.	
Continuous surface	An outer boundary of a 2-D	A sphere has a continuous
Continuous surface	object which is uninterrunted	surface
	object which is unniterrupted	surface.
	by any plane surfaces	
Data	by any plane surfaces.	This block graph shows us
Data	by any plane surfaces. Quantitative information	This block graph shows us
Data	by any plane surfaces. Quantitative information which has been counted or	This block graph shows us data for the colour of the cars
Data	by any plane surfaces. Quantitative information which has been counted or measured.	This block graph shows us data for the colour of the cars in the car park.
Data Decreasing	by any plane surfaces. Quantitative information which has been counted or measured. Becoming smaller in value.	This block graph shows us data for the colour of the cars in the car park. 15, 14, 13, 12. This number
Data Decreasing	by any plane surfaces.Quantitative informationwhich has been counted ormeasured.Becoming smaller in value.Used in relation to number	This block graph shows us data for the colour of the cars in the car park. 15, 14, 13, 12. This number pattern is decreasing by one
Data Decreasing	by any plane surfaces. Quantitative information which has been counted or measured. Becoming smaller in value. Used in relation to number sequences.	This block graph shows us data for the colour of the cars in the car park. 15, 14, 13, 12. This number pattern is decreasing by one each time.
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Data Decreasing Diagram Digit	by any plane surfaces.Quantitative informationwhich has been counted ormeasured.Becoming smaller in value.Used in relation to numbersequences.An illustration, drawing orrepresentation.One of the ten Arabic	This block graph shows us data for the colour of the cars in the car park. 15, 14, 13, 12. This number pattern is decreasing by one each time. I will draw a diagram to show how I programed my floor toy to move. The number 54 has the digit
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Data Decreasing Diagram Digit Divide	by any plane surfaces.Quantitative informationwhich has been counted ormeasured.Becoming smaller in value.Used in relation to numbersequences.An illustration, drawing orrepresentation.One of the ten Arabicnumerals 0 to 9, from whichwe compose numbers.To share or group into equal	This block graph shows us data for the colour of the cars in the car park. 15, 14, 13, 12. This number pattern is decreasing by one each time. I will draw a diagram to show how I programed my floor toy to move. The number 54 has the digit five in the tens column and the digit four in the ones. The digit five has a value of fifty. I can divide 12 by three using
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	fluency, i.e. very fast recall, in	
	these facts. These then	
	become known facts .	
Fraction	 A part of a whole number, quantity or shape. Expressing a division relationship between two integers in the form ^a/_b. 	I have shared my sweets into four equal parts. Everyone will get a fraction 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 kilograms .
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 known facts to partition the number I'm adding.
Left	Indicating the position or direction.	Make a quarter turn left and walk forward three steps.
Litre	A standard unit of volume, equal to 1000 millilitres.	The capacity of the jug is about half a litre .
Mental calculation	A calculation performed without using a formal written strategy. Simple jottings may aid a mental calculation.	14 plus 5 is equal to 19. I completed this using a mental calculation and deriving facts because I know that four plus five is equal to nine
Metre	A standard unit of measure, equal to 100 centimetres.	I estimate that the table is about a metre tall.
Minute	A unit of time.	We will have lunch in five minutes.
Oblong	A quadrilateral with two pairs of parallel sides of equal length.	
Odd number	An integer which is not divisible by two without a remainder.	All numbers which end in 1, 3, 5, 7 and 9 are odd numbers .
Partition	To split a number into two or more parts.	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.	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.
Position	Location, expressed either descriptively using positional prepositions, or specified by coordinates.	The book is on the table. The clock is hanging above the board.
Pound (sterling)	The official currency of the United Kingdom.	Pounds sterling are written using the £ symbol. There are 100 pence in one pound sterling.
Property	Any attribute.	A property of a triangle is that it has three straight sides and three vertices, the sum of whose angles is 180 degrees.
Pyramid	A 3-D shape with a polygonal base and otherwise triangular faces, which form edges with the base, and which meet at an apex.	apex base
Quantity	An amount, in some cases given a numerical value.	A quantity of apples is placed on the left-hand side of the balance. How many kilogram masses will we need to place on the right to balance the apples?
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, which is one quarter of the whole.
Quarter turn	A 90-degree rotation, i.e. $\frac{1}{4}$ of a 360 degree 'full' turn.	
Repeated addition	A structure of multiplication where equal parts are added to make a whole.	I can show 4×5 as repeated addition: $4 + 4 + 4 + 4 + 4$.
Repeated subtraction	A structure of division, where equal parts are subtracted and the number of equal parts summed to calculate a quotient.	I can use repeated subtraction to calculate 20 divided by four: $20 - 4 - 4 - 4$ - 4 - 4.
Represent	To express or show a mathematical concept using words, numerals and symbols, pictures, diagrams, or concrete manipulatives.	I have used three blue cubes to represent the three oranges in the question. I used a part-whole model to represent the addition question.



Right	Indicating the position or	The nicture is on the right -
Kight	direction.	hand side of the board.
Rule	A consistent pattern which	2. 5. 8. 11. 14
	allows generalisation.	The rule is that each number
	Awareness of a rule allows a	is three greater than the
	pupil to continue a sequence	previous number. Therefore.
	or generate a related	the next number in this
	sequence.	sequence will be 17.
Scales	An object used to measure	The scales showed that the
	mass.	banana had a greater mass
		than the apple.
Sign	Synonymous with symbol in	20 $\Box_5 = 4$. What is the
	its mathematical context, e.g.	missing sign ?
	$+, -, \times, \div, =.$	
Standard unit	A uniform measure, agreed	Standard units of mass
	upon as standard.	include grams 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	A bowling ball is a sphere .
	continuous surface, which is	
	at all points equidistant from	
	its centre. It has an infinite	
	number of flat faces and	
	straight edges.	
Symbol	Synonymous with sign in its	20 \Box 5 = 4. What is the
	mathematical context, e.g. +, -	missing symbol ?
m 11	$, \times, \div, =$.	
Table	A structure organised into	The information for Thursday
	columns and rows, in which	is not yet complete on the
	data can be recorded.	table because it is only
Treese	Detetion (see helf and guestion	Wednesday.
lum	Kotation (see nail and quarter	A whole turn is 360 degrees. A
	turn).	nali turn is 180 degrees. A
IInit	1 An element considered	I regrouped top oped for one
Unit	1. All element considered	i regrouped ten ones for one
	as a single entity. Tell	unit of ten.
	grouped together to	Unifix cubes can be used as
	make a unit of ten	units of measure but these
	2 A unit of measure	are not standard units
	which can be standard	are not standard annts.
	or non-standard	
Volume	A quantity or amount of any	The bottle contains a volume
	substance and the 3-D space it	of one litre but its capacity is
	fills.	two litres. The bottle is half
		full.

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



		reason (and 1, 2, 4, 6, 9, 18
Multiplication	One of the four mathematical operations. Multiplication can be understood as repeated addition or scaling (introduced in Year 2)	The multiplication symbol is ×.
Multiply	To increase a quantity by a given scale factor.	I can multiply 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 near double 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 non-unit fraction.
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 operation is addition.
Pentagon	A polygon with five sides and five angles.	
Pictogram	A representation of data using pictures or symbols.	Countries people visited
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 relationship between addition and subtraction is that they are the inverse of each other.
Right angle	An angle of 90 degrees.	A square has four right angles.



Rotation	The act of rotating about an axis/centre.	I will rotate the square 90 degrees clockwise.
Scale	Equally spaced markings on a measuring device which can be read to quantify a measurement.	Using the scale 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 symmetry .
Tally	A form of counting. Each tally is a vertical mark. After the fourth vertical mark, a fifth horizontal/diagonal mark is drawn to create a group of five.	Four children have black hair; I will record this as four tallies .
Temperature	The measure of heat.	Outside has a temperature of 15 degrees Celsius.
Unit fraction	A fraction with a numerator of one.	One-third is a unit fraction .
Vinculum	A horizontal line that separates the numerator and the denominator in a fraction.	$\frac{1}{4}$

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 acute angle .
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 bar graph 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</i> <i>Appendix 1</i> of the 2014 national curriculum.	Solve the following calculations by using the appropriate method of columnar addition or subtraction .
Factor	A number, that when multiplied with one or more other factors, makes a given number.	The number six has four factors : 1, 2, 3 and 6.
Formal written methods	Exemplified in <i>Mathematics</i> <i>Appendix 1 (see above)</i> . As	Pupils should only use formal written methods



	well as including columnar addition and subtraction, these also consist of written algorithms for multiplication and division.	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 irregular .
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 kilometre .
Millimetre	A metric unit measure of length that is equal to one thousandth of one metre.	The length of Philippa's ruler is 300 millimetre s.
Numeral	A numeral is a symbol (or group of symbols) used to represent a number.	Whole numbers can all be represented as numerals consisting of the digits 0 to 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 obtuse .
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 perimeter 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 place holder 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 prism 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 product of 3 and 8.
Regular	Regular 2-D shapes (regular polygons) have angles that	A square is a regular 2-D shape because all four angles



	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.	are right angles and all four sides are the same length. A cube is a regular 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 Roman numerals 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 round 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 and triangular faces that	This square-based pyramid has five faces; one square face and four triangular faces.
Triangle-based pyramid	taper to a point called a vertex or apex.	This triangle-based pyramid 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 area 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 converted 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 coordinate (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	$3 \times (2 + 4) = (3 \times 2) + (3 \times 4)$ 3 × 12 = (3 × 10) + (3 × 2)

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	multiplying the numbers separately and then adding	
	the products.	
Dividend	The amount that you want to divide.	In '12 ÷ 3 = 4', 12 is the dividend .
Divisor	The number you divide by.	In '12 \div 3 = 4', 3 is the divisor .
Equilateral	Having all sides the same	An equilateral triangle has three
_	length.	equal sides.
Equivalent	Equivalent means having	2 1
	the same value. Equivalent	$\overline{4} = \overline{2}$
	fractions have the same	
	value.	
Expression	One or a group of numbers,	2 × 3
	symbols or operators. An	4 ²
	expression does not use	
	equality or inequality signs.	
	Using an equality or	
	inequality sign will give an	
	equation.	
Grid	A series of evenly divided	
	and equally spaced shapes,	
	usually squares.	
T		
Improper fraction	A fraction where the	$\frac{12}{11}$
	numerator is bigger than	11
	fractions are therefore	
	mactions are ineretore	
Integen	greater than one whole.	6 is an integer of 6 is not
Integer	A whole humber that can be	6 is an integer, 0.6 is not.
Interval	An interval on a graph's	If one point on an axis is 50 and
Interval	avis lies between two	the next 60, the interval is 10
	values	the next oo, the interval is io.
Isosceles	Having two sides of equal	4
	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	Temperature graph
	data chart.	
	Used to present continuous	16 17 20
	data, such as change over	10 14
	time.	0 8:00am 10:00am 12:00 noon 2:00pm 4:00pm
Mixed numbers	Numbers consisting of an	
	integer and fractional part.	² , ³ , ⁴
Negative number	A number that is less than	-1240.5 etc.
	zero. (It is helpful to refer	_, _, , , , , , , , , , , , , , , , , ,
	to these numbers as	



	'negative numbers' rather	
	than 'minus' to avoid	
	confusion with the	
Danallalagnam	A a D abara that has two	
Parallelogram	A 2-D shape that has two	
	pairs of parallel sides and	
Plot	To mark out a point on a	(Plat the point (a, 6)' means to
FIOU	graph or grid	draw the procise location of that
	graph of grid.	noint usually shown as a dot or a
		small cross
Point	The precise location of a	An exact place on a graph or on
1 onit	position on a 2-D plane	squared paper A point is often
	position on a 2 D plane.	represented by a capital letter.
Positive number	A number that is greater	2 22 0 5
I OSITIVE Humber	than zero. Zero is neither	5, 52, 0.5
	positive or negative	
Proper fraction	A fraction with a value less	1 3 5
	than one.	$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$
		and the second se
Protractor	A measuring device for	
	measuring the size of an	
	in dogroos (°)	
Quotient	The result when the	15 ÷ 2 - E
Quotient	dividend is divided by the	$5 \cdot 5 = 5$
	divisor.	
Rectilinear	A rectilinear shape has	A rectangle.
	straight line edges which	A straight-sided shape that can be
	are perpendicular (all meet	divided up into other rectangles.
	at right angles).	
Rhombus	An equilateral	
	parallelogram with four	
	equal length sides.	
Scalene	A scalene triangle has three	
	unequal sides and three	
Short division	A formal unitton lavout	
Short division	where the quotient is	
	calculated showing only	
	one written sten	5 5 5 5
	one written step.	
Short multiplication	A formal written lavout	782
	where the multiplier is	$\times 9$
	usually 9 or less.	7038



Simplify	To write a number or equation in its simplest	I can simplify $\frac{8}{10}$ to $\frac{4}{5}$.
	form.	
Square centimetre	A unit of measure for area equal to a square with the	Sometimes referred to as centimetre squared, abbreviated
	dimensions 1 cm by 1cm.	to cm ² .
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° <i>a</i> °
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 mean average of the set 4, 5, 5, 6 is 5 because (4 + 5 + 5 + 6) ÷ 4 = 5.
Common factor	A factor of two (or more) given numbers.	A common factor 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 common multiple 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 congruent . If I place one on top of the other, there is no overlap.
Cube number	The product of three equal factors.	Eight is a cube number 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 which measures 1 cm × 1 cm × 1 cm.	The volume of this multilink cube is eight cubic centimetres.
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 cubic metres.
Decagon	A polygon with ten sides and ten angles.	$\overline{\mathbf{X}}$



Dograa	The unit of measure for	A might angle is an degrace
Degree	angles.	A right angle is 90 degree s.
Diagonal	A straight line segment that	The diagonals
0	joins one vertex to another.	of a kite are
	5	perpendicular
Divisible	A number is said to be	24 is divisible by 8. When
	divisible by another if it can	divided by 8 it gives a quotient of
	be divided by that number	3, with no remainder.
	without a remainder.	
Dodecagon	A polygon with twelve sides	
	and twelve angles.	
Long division	The formal written	34
	algorithm that can be used	12 408
	to divide by a number with	<u>36</u>
	two or more digits.	4 8
		<u>48</u>
		0
I and multiplication	The formed subtraction	2.4
Long multiplication	The formal written	3 4
	algorithini that can be used	<u>× 1 2</u>
	number with two or more	68
	digits	340
	uigits.	408
Negative integer	A whole number with a	When the temperature falls
	value less than zero. Zero is	below 0° a negative integer is
	neither positive nor	used to record it.
	negative.	
Nonagon	A polygon with nine sides	\frown
	and nine angles.	()
		\smile
Percentage	The number of parts per	30% means for every 100 there
	hundred which is written	are 30.
D 1	using the % symbol.	
Polygon	A 2-D shape with three or	Triangles and rectangles are
Dalaha dara a (al	more straight sides.	examples of polygons .
rolynearon (pl.	A 3-D snape with flat	A cubola is a polynearon .
polyneura	surfaces that are polygons.	hoening it has a current surface
Drime factor	A factor that is a prime	2 and 2 are prime factors of 4
	number	β and 2 are prime factors of 0.
Prime number	A whole number with only	2. 3. 5. 7. 11. 13. 17 and 10 are the
	two factors, one and the	prime numbers less than 20
	number itself.	P
Remainder	The amount remaining after	21 divided by four is equal to five
	division when a whole	with a remainder of 1.
	number answer is needed.	



Reflection Reflex angle	A mirror image that is equidistant from a mirror line. An angle that is greater than 180°.	The shape has been reflected in the dotted mirror line.
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 to scale . 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 square metres .
Square number	The product of two equal factors.	9 is a square number 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 centre .
Circumference	The perimeter/boundary of a circle.	\bigcirc
Compasses	A tool for creating curved lines, arcs and circles.	I can use a pair of compasses 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 degree of accuracy 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 equivalent expression to 17 + 10. 18 + 9 is an equivalent expression to 17 + 10.
Factorise	To identify factors of a given number. To express a number as factors.	I can factorise 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 feet tall.
Formula	An algebraic expression of a rule.	The area of a rectangle can be found by multiplying the width and height. $\mathbf{a} = \mathbf{w} \times \mathbf{h}$
Gallon	An imperial unit of measure of volume/capacity.	A gallon 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 imperial unit to measure length.



Inch	An imperial unit of measure.	An inch is approximately 2.2 cm.
Intersect	The point at which two (or more) lines meet is where they intersect.	The x and y axes intersect at (0,0)
Metric unit	A standard unit of measure used in the UK and Europe. Includes centimetres, litres and kilograms.	Litres are a metric unit used to measure volume.
Mile	An imperial unit of measure of length.	Five miles is equivalent to eight kilometres.
Net	A group of 2-D shapes which, when folded and connected, forms a 3-D polyhedron.	The net of a cube is comprised of six connected squares.
Order of operations	The internationally agreed order to complete operations in a multi-step equation with multiple operations.	$(3 + 4) \times 2 = \Box$ The order of operations dictates that the operation within the brackets is completed first.
Origin	The point at which axes in a coordinates grid cross; the point (0,0).	The origin is indicated by the blue dot.
Ounce	An imperial unit of measure of mass.	The newborn baby had a mass of 6 pounds and 3 ounces .
Pie chart	A representation of a set of data where each segment represents one group in proportion to the whole.	Nationality of Astronauts on Board ISS January 2017
Pint	An imperial unit of measure.	I found a pint of milk on my doorstep.
Pound (mass)	An imperial unit of measure of mass.	The new-born baby had a mass of 6 pounds and 3 ounces.
Proportion	A comparison between two or more parts of a whole or group. Proportion expresses a part-whole relationship. This may be represented as a fraction, a percentage or a decimal.	Two thirds of a class were boys. The proportion of the class that is girls is one third.



Quadrant	One of four regions into which a coordinates grid is divided.	Second Quadrant Negative x, positive y First Quadrant Positive x and y values Third Quadrant Negative x, negative y Fourth Quadrant Positive x, negative y
Radius	A line from one point of the circumference of a circle to the centre of the circle.	
Ratio	A comparison between two or more parts of a whole or group. Ratio expresses a part- part relationship. This is usually represented in the form a:b.	For every 4 tulips there are 7 daffodils. The ratio of tulips to daffodils is 4:7.
Similar	Similar shapes are those which 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.	All squares are similar to one another.
Square millimetre	The area of a square with sides 1 mm.	The smallest squares on graph paper have an area of one square millimetre.
Square kilometre	The area of a square with sides 1 km.	The area of England is 130 279 square kilometres.
Vertically opposite angles	Angles which are positioned opposite to one another when two lines intersect.	The purple angles indicated are vertically opposite angles .