

Year Group	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
·	Recognise some numerals of personal significance.	Count, read and write numbers to 100 in numerals.	Recognise the place value of each digit in a two-digit number.	Recognise the place value of each digit in a three- digit number.	Recognise the place value of each digit in a four-digit number.	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	Use negative numbers in context, and calculate intervals across zero.
	Recognises numerals 1 to 5.	Read and write numbers to 20 in numerals and words.	Compare and order numbers from 0 up to 100; use <, > and = signs.	Compare and order numbers up to 1000.	Order and compare numbers beyond 1000.	Read, write, order and compare numbers up to 1 000 000 and determine the value of each digit.	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.
Place	Counts up to three or four objects by saying one number name for each item.	Partition 2-digit numbers into tens and units.	Identify, represent and estimate numbers using different representations, including the number line.	Identify, represent and estimate numbers using different representations.	Round any number to the nearest 10, 100 or 1000.	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	Round any whole number to a required degree of accuracy.
Place Value	Counts actions or objects, which cannot be moved.	Identify and represent numbers using objects and pictorial representations including the number line.	Read and write numbers to at least 100 in numerals and in words.	Read and write numbers to 1000 in numerals and in words.	Identify, represent and estimate numbers using different representations.	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
	Counts objects to 10, and beginning to count beyond 10.				Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Recognise and use square numbers and cube numbers, and the notation for squared ( <sup>2</sup> ) and cubed ( <sup>3</sup> ).	
	Counts out up to six objects from a larger group.						
Ad diti	Counting in ones, 1:1 correspondence starting	Count to, read and write numbers across 100.	Use partitioning and add 2 digit number.	Partition using columns for addition – involve crossing 10 then 100.	Formal column method of addition (4 digit numbers).	Introduce adding decimal in a column.	Add negative integers.



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	from difference numbers – up to 20.						
	Adding 2 groups together by counting and counting on.	Number bonds 10, 20 & 100.	Apply written methods as well as concrete objects.	add and subtract numbers mentally, including: HTO+O, HTO+T and HTO+H	Involve 2 step problems.	Read, write & compare numbers to at least 1,000,000.	Consolidating & applying knowledge to solve problems.
	Uses the language of 'more' and 'fewer' to compare two sets of objects.	Add 1 & 2 digit numbers to 20 including 0.	Adding 3 digit numbers using partitioning.	Add and subtract numbers with up to three digits, using formal written methods of columnar addition.	Adding 3 lots of four digit numbers.	Interpret negative numbers in context, calculate intervals across zero.	Perform mental calculations, including with mixed operations and large numbers.
	Says the number that is one more than a given number.	Solve one step problems that involve addition using concrete objects and mentally.	Understanding of commutative law in relation to addition.	Estimate the answer to a calculation and use inverse operations to check answers	Doubling & halving 2, 3 & 4 digit number (odd numbers).	Solve number problems & practical problems.	
	In practical activities and discussion, beginning to use the vocabulary involved in addition.	Doubling & halving simple numbers.	Use inverse to check missing number problems.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Estimate and use inverse operations to check answers to a calculation.	Add and subtract numbers mentally with increasingly large numbers	
		Missing & number problems.	Doubling & halving including multiples of 12.		Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Add and subtract whole numbers with more than 4 digits, including using formal written methods.	
		Use language of equal to, more than.	Extend mental maths strategies to include number bonds.			Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	
		Add simple 2-digit numbers together				Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	
		Given a number, identify one more and one less.					
Subt	Physically taking away using numbers up to 20.	Subtract by finding the difference on a number line.	Subtract by finding the difference on a number line.	Subtract by finding the difference on a number line.	Subtract using formal column method.	Subtract using formal column method.	Subtract using formal column method.
Subtracti	Using number lines with physical objects.	Numbers should extend as children become more confident. This	Begin to do larger jumps of 10 or 2.	Use a number line to make bigger jumps. Mixture of numbers	Application to number challenges using inverse to check.	Decimals (as money)	Decimals (as money)

no



		then needs applying to problems both written and practical.		counting onto the next whole 10, 100.			
	Uses the language of 'more' and 'fewer' to compare two sets of objects.	Missing number sentences.	Extension work to involve 3 digit numbers.	Doubling / halving 2, 3 and 4 digit number.	Estimate and use inverse operations to check answers to a calculation.	Application to number challenges using inverse to check.	Application to number challenges using inverse to check.
	In practical activities and discussion, beginning to use the vocabulary involved in subtraction.	Application to number challenges using inverse to check.	Application to number challenges using inverse to check.	Application to number challenges using inverse to check.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.		
				add and subtract numbers mentally, including: HTO+O, HTO+T and HTO+H			
				Add and subtract numbers with up to three digits, using formal written methods of columnar addition.			
				Estimate the answer to a calculation and use inverse operations to check answers			
				Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.			
nЫ		Solve simple one step problems involving 'group of' concrete and pictorial objects.	2, 5, 10 times table and understand it as repeated addition.	Children should know all times tables by end of year.	Consolidate all times tables.	Consolidate all times tabl	
Multiplication			Learn these tables, extend to 3, 4 when confident.	Introduce multiplication in formal method. 2 by 1 digit	Formal column multiplication methods	Multiply multi digit numl numbers using formal me	thod.
on			Solve problems using materials, array & repeated addition.	Application to number challenges. Real life situations & problems.	2- & 3-digit x 1 digit. Extend to 4 digits in columns.	Multiply decimal numbers	s by 10, 100 and 1000.



		Calculate simple number sentences using table they know – begin to use grid method with higher ability. Understand cumulative law with x link to +. Application to number challenges. Real life situations & problems.	Counting in multiples of 4, 8, 50 & 100. (6, 7, 9, 25 & 1000 extension)	Application to number challenges. Real life situations & problems.	Identify multiples, factors prime numbers. Recognise squared and cu Application to number ch situations & problems.	bed numbers.
	Solve simple one step problems involving 'group of' concrete and pictorial objects.	2, 5, 10 times table and understand it as repeated addition.	Children should know all times tables by end of year.	Consolidate all times tables.	Consolidate all times tables.	Solve simple one step problems involving 'group of' concrete and pictorial objects.
		Learn these tables, extend to 3, 4 when confident.	Introduce multiplication in formal method. 2 by 1 digit	Formal column multiplication methods	Multiply multi digit numbers up to 4 digit whole numbers using formal method.	
Division		Solve problems using materials, array & repeated addition.	Application to number challenges. Real life situations & problems.	2 & 3 digit x 1 digit. Extend to 4 digits in columns.	Multiply decimal numbers by 10, 100 and 1000.	
		Calculate simple number sentences using table they know – begin to use grid method with higher ability.	Counting in multiples of 4, 8, 50 & 100. (6, 7, 9, 25 & 1000 extension)	Application to number challenges. Real life situations & problems.	Identify multiples, factors, common factors and prime numbers.	
		Understand cumulative law with x link to +.			Recognise squared and cubed numbers.	



	Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	Recognise, find, name and write fractions 1/3, `1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.	Count up or down in tenths.	Count up or down in hundredths.	Recognise mixed numbers and improper fractions and convert from one to the other.	Use common factors to simplify fractions.
	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	Write simple fractions and recognise the equivalence of 2/4 and 1/2.	Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers of quantities by 10.	Recognise that hundredths arise from dividing an object by 100 and dividing tenths by 10.	Write mathematical statements > 1 as a mixed number.	Use common multiples to express fractions in the same denomination.
			Compare and order unit fractions and fractions with the same denominators.	Recognise and show, using diagrams, families of common equivalent fractions.	Compare and order fractions whose denominators are all multiples of the same number.	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
Fractions			Recognise and show, using diagrams, equivalent fractions with small denominators.	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	Identify, name and write equivalent fractions of a given fraction, representing visually, including tenths and hundredths.	Multiply simple pairs of proper fractions, writing the answer in its simplest form.
			Recognise, find and write fractions of a discrete set of objects with small denominators.	Add and subtract fractions with the same denominator.	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Divide proper fractions by whole numbers.
			Add and subtract fractions with the same denominator within one whole.	Solve simple measure and money problems involving fractions and decimals to two decimal places.	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	
			Solve problems using all fraction knowledge.			
Decima Is and				Recognise and write decimal equivalents of any number of tenths or hundredths	Read and write decimal numbers as fractions	Associate a fraction with division and calculate decimal fraction equivalents [for example,



				0.375] for a simple fraction
		Recognise and write decimal equivalents to 1/4, 1/2 and 3/4	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Identify the value of each digit in numbers given to three decimal places
		Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Round decimals with two decimal places to the nearest whole number and to one decimal place.	Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
		Round decimals with one decimal place to the nearest whole number	Read, write, order and compare numbers with up to three decimal places	Multiply one-digit number with up to two decimal places by whole numbers
		Compare numbers with the same number of decimal places up to two decimal places	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	Se written division methods in cases where the answer has up to two decimal places
			Solve problems involving number up to three decimal places	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
			Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.



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						denominator of a multiple of 10 or 25	
							Solve problems, which require answers to be rounded to specified degrees of accuracy.
							Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
	They use past, present and future forms accurately when talking about events that have happened or are to happen in the future. They develop their own narratives and explanations by connecting ideas or events.	Compare, describe and solve practical problems for: length/height, weight/mass, capacity/volume & time.	Choose and use appropriate standard units to estimate and measure length/height (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Convert between different units of measure estimate, compare and calculate different measures, including money in pounds and pence.	Convert between different units of metric measure.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
Measurement	Can describe their relative position such as 'behind' or 'next to'.	Measure and begin to record length/height, weight/mass, capacity/volume & time.	Compare and order lengths, mass, volume/capacity and record the results using >, < and =.	Measure the perimeter of simple 2-D shapes.	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
	Orders two or three items by length, height, weight or capacity.	Recognise and know the value of different denominations of coins and notes.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.	Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Find the area of rectilinear shapes by counting squares.	Estimate volume and capacity.	Convert between miles and kilometres.
	Uses familiar objects and common shapes to create and recreate patterns and build models.	Sequence events in chronological order using language recognise and use language relating to	Find different combinations of coins that equal the same amounts of money.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII,	Convert between different units of measure (e.g. Hours to minutes).	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	Recognise that shapes with the same areas can have different perimeters and vice versa.



		dates, including days of the week, weeks, months and years.		and 12-hour and 24- hour clocks.			
	Uses everyday language related to time.	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.	Read, write and convert time between analogue and digital 12- and 24- hour clocks.	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes.	Recognise when it is possible to use formulae for area and volume of shapes.
	Beginning to use everyday language related to money.		Compare and sequence intervals of time	Know the number of seconds in a minute and the number of days in each month, year and leap year and compare durations of events.	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Calculate the area of parallelograms and triangles.
	Orders and sequences familiar events.		Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.			Solve problems involving converting between units of time.	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units.
	Measures short periods of time in simple ways		Know the number of minutes in an hour and the number of hours in a day.				
Geometry	They recognise, create and describe patterns.	Recognise and name common 2-D shapes (e.g. Square, circle, triangle) .	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	Compare and classify geometric shapes, including quadrilaterals and triangles, based on properties and sizes.	Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
try	They explore characteristics of everyday objects and shapes and use	Recognise and name common 3-D shapes (e.g. Cubes, cuboids, pyramids & spheres).	Compare and sort common 2-D and 3-D shapes and everyday objects.	Draw 2D shapes.	Identify lines of symmetry in 2-D shapes presented in different orientations.	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	Compare and classify geometric shapes based on their properties and sizes.



#### Mathematics Vocabulary coverage

"The national curriculum for mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and presenting a mathematical justification, argument or proof. They must be assisted in making their thinking clear to themselves as well as others, and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions."

National Curriculum in England, Department for Education, 2013

Using correct mathematical language is crucial for thinking, learning and communicating mathematically. Children may build knowledge through remembering information that they hear, but it is only when they put these ideas into their own words that it becomes clear whether concepts have been learned effectively. It is in listening to children talking about mathematics that we, as teachers, can best assess what they are actually learning and understanding. This enables us to identify and address any misconceptions that might be developing.

We need to encourage children to explain what they are doing and why they are doing it. We must offer them opportunities to use mathematical language frequently, for example by participating in paired activities, group discussions and games as well as other dialogues. This will help children to learn new vocabulary, to use words they already know more accurately, and to express new ideas and new thinking.

It is important to introduce children to the correct vocabulary at the appropriate time and within a suitable context. It is often helpful to do this using relevant real-life objects, mathematical manipulatives and visual representations such as pictures and diagrams. All children need regular, planned opportunities to develop their mathematical vocabulary in order that they become familiar with the language and are not confused by mathematical terms. They need to acquire the words necessary for them to take part in lessons and activities, respond to questions correctly and carry out tasks successfully. Fun games and activities can be a useful way to rehearse words and their meanings regularly.

Please note: progression through each year group's vocabulary is intended to build on that taught in the previous year group



Year Group	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number	Zero Nothing at all Number	In addition to all previous vocabulary	In addition to all previous vocabulary	In addition to all previous vocabulary	In addition to all previous vocabulary	In addition to all previous vocabulary	In addition to all previous vocabulary
	Used to count one, two, three to twenty and beyond equal is the same as pattern a repeated sequence count to list the numbers to find the total	numeral / digit A symbol which represents an amount forwards Counting by adding one more every time Backwards Counting by removing one every time > greater than < less than Numbers up to 100	tally a record of an amount sequence a list of number or objects in a special order	Roman numerals Letters representing numbers in the Roman numerical system Numbers up to 1000	Consecutive Numbers that follow each other, in the right order Integer A whole number negative number A number less than zero Ascending From smallest to largest Descending From largest to smallest	≥ Greater than or equal to ≤ Less than or equal to Numbers up to 1 million	Numbers to 10 million
Place Value	Greater Bigger than Less Smaller than one more The number that comes next one less The number that comes before order compare What is the same and different ones single symbol used to make a numeral	In addition to all previous vocabulary equal to the same as tens ten ones half-way between the exact middle representation A visible model	In addition to all previous vocabulary Hundreds Ten tens one-, two- or three- digit number A number represented by _ digits place value the value of each digit in a number exchange to take an equivalent amount increase Getting bigger Decrease Getting smaller	In addition to all previous vocabulary three-digit A number represented by 3 digits	In addition to all previous vocabulary thousands one hundred tens tenths ten equal parts in a whole hundredths one hundred equal parts in a whole	In addition to all previous vocabulary Thousandths one thousand equal parts in a whole Unitising To count as a single unit	In addition to all previous vocabulary Ten thousandths ten thousand equal parts in a whole



Estimating	nearly close to	In addition to all previous vocabulary Estimate A sensible guess	In addition to all previous vocabulary Exact A precise amount	In addition to all previous vocabulary approximate close to the actual amount round To the closest group of	In addition to all previous vocabulary Conjecture a conclusion based on evidence	Consolidate previously taught	Consolidate previously taught
Addition and subtraction	answer a solution to a problem add bring two or more numbers together to make a total double same number added twice take away remove a number of items from a set total how many altogether equal is the same as	In addition to all previous vocabulary Pictorial Representation to use pictures to show the maths Concrete objects To use objects to show the maths Mental do it in your head subtract take away addition a number to be added to another number bonds a pair of numbers with a particular total partitioning splitting numbers into tens and ones inverse the opposite of another operation	In addition to all previous vocabulary sum the result of one or more additions subtract take away, the inverse of addition column addition/ subtraction addition/subtraction by writing one number below the other and working from right to left tens boundary when numbers jump over a multiple of 10 difference numerical difference found by comparing quantities commutative can be done in any order	In addition to all previous vocabulary Hundreds boundary when numbers jump over a multiple of 100 near double one away from a double operation a mathematical process: addition, subtraction, multiplication and division	In addition to all previous vocabulary Two-step problem a problem that requires two operations to solve it	In addition to all previous vocabulary Minuend The number to be subtracted from Subtrahend The number being subtracted Addend A number being added to another	In addition to all previous vocabulary Order of operations Sequence in which operations should be solved
Multiplication and division	Equal Exactly the same Sharing put into equal groups Doubling same number added twice	In addition to all previous vocabulary Multiply /multiplication add equal groups Divide / division	In addition to all previous vocabulary repeated addition adding the same number repeatedly repeated subtraction subtracting the same	In addition to all previous vocabulary multiple The result of multiplying an integer by another integer	In addition to all previous vocabulary Derived facts Taken from other known facts remainder	In addition to all previous vocabulary Factor pairs Pair of numbers which multiply together to give a product square number	In addition to all previous vocabulary Factorise Express an integer as the product of its factors



	halving Dividing into two equal groups lots of groups of	Sharing into equal groups array arranged objects in rows and columns	number repeatedly odd numbers whole number which can't be divided into two equal groups 1,3,5,7,9 even numbers whole number which can be divided into two equal groups 0,2,4,6,8	Factor Two or more numbers which divides a number without a remainder product the result of multiplying two numbers inverse the opposite of another operation formal method setting out working in column form	the amount left over after a division	A number multiplied by itself prime number Can only be divided by itself and one long multiplication Multiplying two numbers by a number with two or more digits short division Bus stop method when the divisor is less than 10 remainders The amount left over after a division Quotient The result of a division	prime factor The factors of a number that are prime long division Division by more than a single digit (chunking) common factor An integer which is a factor of two or more integers. common multiple An integer which is a multiple of two or more integers.
Fractions including decimals, percentages, ratio and	Half One of two equal parts Double Same amount added twice Whole All of Share Split into equal groups	In addition to all previous vocabulary quarter One of four equal parts Fraction An equal part of a whole equal part All parts exactly the same size	In addition to all previous vocabulary Three quarters Three out of four equal parts One third One of three equal parts Equivalent The same	In addition to all previous vocabulary equivalent fraction Two or more fractions with the same value Numerator The number of parts out of the whole Denominator The number of equal parts in the whole Tenths One out of ten equal parts Unit fraction A fraction where the numerator is one Non-unit fraction A fraction where the numerator is greater than one	In addition to all previous vocabulary Decimal An integer and a part separated by a decimal point One/two decimal place The number of digits after the decimal point decimal equivalent A decimal which has the same value as a fraction Tenth One of ten equal parts Hundredth One of one hundred equal parts	In addition to all previous vocabulary Proper fraction The numerator is less than the denominator Improper fraction The numerator is greater than the denominator Mixed number fraction An integer and a fraction Simplify A fraction in its simplest form by finding the lowest common factor Percent One part per hundred Thousandth	In addition to all previous vocabulary Ratio The relative sizes o two or more values Simplest form A fraction in its simplest form by finding the lowest common factor Degree of accuracy A measure of the accuracy of a quantity.



				Compare		One of one thousand	
				To say which is greater		equal parts	
				or smaller			
							formula
Algebra							a way to represent
bra							calculations using
<u> </u>							letters
							variable
							An unknown number
							in an equation which
							can take different values – shown by a
							letter or number
							Substitute
							Put in the place of
							another
							Linear number
							sequence
							A set of numbers
							ordered according to a
1							rule.
Me	Measure	In addition to all	In addition to all	In addition to all	In addition to all	In addition to all	In addition to all
ası	To find the size	previous vocabulary	previous vocabulary	previous vocabulary	previous vocabulary	previous vocabulary	previous vocabulary
Irei	Mass	<b>ruler</b> Used to measure		Distance	Danah	T	C'
ne	How heavy something	distances with regular	Weighing scale Measure the mass	<b>Distance</b> How far it is from one	<b>Depth</b> <i>The distance from top</i>	<b>Imperial unit</b> <i>Old units of length</i>	<b>Circumference</b> <i>The distance around</i>
, Pt	<i>is</i> wide	intervals	sitting on them	thing to another	to bottom or back to	including miles, ft and	the edge of a circle
	More than normal	volume	Gram/Kilogram	Perimeter	front	inch.	Tonne
	width	The amount of space a	Unit of measure for	The length around the	Width	Pint/gallon	A unit of mass equal to
	Narrow	3D object takes up	weight and mass	outside of a shape	The measurement of	Imperial units to	1000 kg
	Less than normal	Capacity	Meter/millimeter	Centigrade	the distance of the side	, measure volume of	Pound/Ounce
	width	The amount something	Unit of measure for	A unit used to measure	of an object	liquid	Imperial unit of mass
	Balances	can hold	length	temperature	Area	Metric unit	Miles
	Both sides have the	half/quarter full	Temperature		A measure of the space	Used to measure	Imperial unit of
	same mass	Holding half/quarter of	A measure of warmth		inside of a 2D shape	length, weight or	distance
	Heavy	its capacity	of an object		Measuring cylinder	volume in mm, cm, m	
	More than normal	<b>Length</b> The distance between	<b>Degree</b> A unit to measure		A container used to measure volumes of	and km.	
	mass light	two points	A unit to measure temperature		measure volumes of liquid		
	ugni Less than normal mass	Height			Convert		
	Less than normal mass	Theight			CONTRELL		



Time	Full Containing as much as possible Empty Containing nothing Time When something happens or how long it takes Today The present day Yesterday The day before today Yesterday The day after today Clock / Watch A device to measure time Week Seven days Weekend Saturday and Sunday Children should use confidently: days of the week, Monday, Tuesday day, week morning, afternoon, evening, night bedtime, dinner time playtime	The distance between top to bottom	In addition to all previous vocabulary Fortnight Two weeks, 14 days Month Unit of time used in calendars Year 365 days Quarter past 15 minutes after the hour Quarter to 45 minutes after the hour, 15 minutes before the next hour Digital A clock where time is shown by digits Analogue A clock where time is shown by hands on a dial	In addition to all previous vocabulary Century 100 years a.m Ante meridiem – before noon p.m Post meridiem – after noon 12-hour clock time 24 hours are divided into am and pm 24-hour clock time Runs from midnight to midnight	To change a value from one to another In addition to all previous vocabulary leap year Extra day added to the shortest month, 366 days in total Millennium 1000 years	In addition to all previous vocabulary Timetable A table information showing when things will happen Arrive Reach a place at the end of a journey Depart Leave a place at the start of a journey	In addition to all previous vocabulary Greenwich Mean Time Time calculated using the sun at its highest point British Summer Time Daylight savings time in summer when clocks go forward
Money	Money What people use to buy things Coin	In addition to all previous vocabulary Pence The smallest unit of money	In addition to all previous vocabulary Change How much is returned after paying	Consolidate previously taught	Consolidate previously taught	In addition to all previous vocabulary Discount A reduction in price Currency	In addition to all previous vocabulary Profit The amount of money made that is more



A piece of metal money that is small, flat and round Spend To pay money Pay To give money to	Pound 100 pence Dear Costs a lot of money Cheap Costs little money Total How much altogether				Official money of a country	than was put in at the start Loss Making less money than is spent
shape The form of an object Pattern a repeated sequence flat A straight and even surface Round Shaped like a circle or a ball Straight A side with no curves rectangle A shape with 4 straight sides and 4 vertices square A shape with 4 even straight sides Circle A shape with one curved side triangle A shape with 3 straight sides	In addition to all previous vocabulary Symmetrical Either side is a reflection of the other repeating pattern A series repeated more than one time cuboid 3D shape with 6 flat faces cylinder 3D shape with 6 flat faces differe 3D shape with 2 flat circular faces and 1 curved face 3D Three dimensional, solid shape can be touched 2D Two dimensional, flat shape Face Flate or curved surface on a 3D shape Edge Where 2 faces on a shape come together Vertices corners Pyramid 3D shape with a square base and 4	In addition to all previous vocabulary Surface A face of a 3D shape line symmetry A line which cuts a shape perfectly in half Pentagon A 2D shape with 5 edges and 5 vertices Hexagon A 2D shape with 6 edges and 6 vertices Octagon A 2D shape with 8 edges and 8 vertices	In addition to all previous vocabulary Perimeter The length around the outside of a shape Angle Measure of a turn in degrees degree A measure for angles perpendicular lines Lines that cross another line at a 90 degree angle parallel lines Two lines that are always the same distance apart and never meet right-angled 90 degree angle prism 3D shape with 2 identical triangular bases and 4 flat sides	In addition to all previous vocabulary Area A measure of the space inside of a 2D shape Quadrilateral A 4 sided 2D shape Acute angle An angle between 0 and 90 degrees Obtuse angle An angle greater than 90 degrees Reflect A transformation resulting in a mirror image Regular 2D shape where all interior angles and sides measure the same Irregular A shape where all sides and angles are any length and size Rectilinear A shape with straight sides and right angles and engles are an equal length, all 3 angles are equal Isosceles triangle	In addition to all previous vocabulary Congruent Two shapes that are the same size and shape axis of symmetry A line through a shape so that each side is a mirror image reflective symmetry A share or pattern reflected in a mirror or a line of symmetry x-axis horizontal line in a graph y-axis The vertical line in a graph Octahedron 3D shape with 8 faces, 12 edges and 6 vertices Parallelogram 4 sided shape with 2 pairs of parallel lines that are equal in length Tetrahedron Polyhedron	In addition to all previous vocabulary Circumference The distance around the outside of a shape Net A pattern you can cut and fold to make a model of a solid shape Kite Quadrilateral with 2 pairs of sides which are equal length Intersecting lines A pair of lines which cross at a point scale factor Enlarge a shape and each side is multiplied by the same number Radius The distance half way across the circle Diameter The distance across the middle of a circle or its circumference Reflex angle



		triangular faces. Sphere 3D shape with 1 curved face Cone 3D shape with a circular base, one curved face and a point			2 sides are an equal length, 2 angles are an equal size Scalene triangle All sides and angles are different Heptagon A 2D shape with 7 angles and 7 sides Quadrilateral A 4 sided shape Spherical Like a sphere round		An angle greater than 180 degrees and less than 360 degrees
Position and Direction	Position Where something is Over Directly on top Underneath Directly below Opposite Facing something Between In the middle	In addition to all previous vocabulary Center The exact middle Whole turn A turn through all four parts of a circle: facing in the same direction to where it started Half turn A turn through two of the four parts of a circle: facing in the opposite direction to where it started Quarter turn A turn through one of the four parts of a circle Three quarter turn A turn through three of the four parts of a circle	In addition to all previous vocabulary Route A way taken to get from start to a destination. Clockwise In the same direction as the hands on a clock Anticlockwise In the opposite direction as the hands on a clock	In addition to all previous vocabulary Compass point North, South, East or West Horizontal A line that runes right and left across a page Vertical A line that runs up and down across a page Diagonal A straight line joining two opposite corners	In addition to all previous vocabulary Translate Moving a shape up, down or from side to side Rotate A circular movement Reflection A transformation resulting in a mirror image Compass Shows the direction of magnetic North	In addition to all previous vocabulary Coordinate A point on a grid with 2 numbers to identify its position Protractor An instrument used to measure angles in degrees	Consolidate previously taught



Statistics	Count to list the numbers to find the total sort To group in a special way	In addition to all previous vocabulary Vote Decide on something by saying what you want Table Information in rows and columns Tally chart A table used for counting using marks	In addition to all previous vocabulary Graph Shows information as an image Block graph Shows information using blocks Pictogram Chart using pictures or symbols to give information Key The part of a graph that explains the symbols used Compare Say what is the same and what is different	In addition to all previous vocabulary Chart A visual representation of data Bar chart Displaying information by using rectangular bars of different heights Frequency table The number of times something occurs Carroll diagram A way of sorting numbers and shapes by their traits. Venn diagram Uses circles to show the relationship among groups of things Axis The reference line used to measure on graphs and grids x-axis (horizontal) y-axis (vertical)	In addition to all previous vocabulary Data A collection of information gathered by observation or measurement Comparison What is the same or different about two or more things Continuous data Data which can take any value Line graph Shows information which changes over time	In addition to all previous vocabulary Bar line chart Show quantity alongside changes over time Timetable A table information showing when things will happen Two-way table Presenting data from more than one category to see the frequency of each category.	In addition to all previous vocabulary Pie chart A graph where a circle is divided into sectors to represent a proportion Mean Average; a central value of a set of values. Add up all the numbers and divide by how many numbers there are. Statistics Gathering information, summarising it and deciding what it means. Distribution How data is spread out Outcome A result that depends on probability Proportion A portion or part in relation to a whole
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