	EY	FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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Counting	 Children count reliably with numbers from 1 to 20 say which number is one more or one less than a given number Count on or back to find the 	•Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number •Count, read and write numbers to 100 in numerals; count in multiples	•Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	•Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.	less than a given number count backwards through zero to include negative numbers	•Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 •Interpret negative numbers in context, count forwards and backwards with positive and	•Use negative numbers in context, and calculate intervals across zero
se Value	Place numbers in order	of twos, fives and tens	•Recognise the place value of each digit in a two-digit number •compare and order numbers from 0 up to 100; use <, > and	•Recognise the place value of each digit in a three-digit number •Compare and order numbers	•Recognise the place value of each digit in a four-digit number •order and compare numbers beyond 1000	negative whole numbers, including through zero •Read, write, order and compare numbers up to 1 000 000 and determine the value of each digit •Round any number up to 1 000	•Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit •Round any whole number to a
Place	Beginning to represent numbers using fingers, marks	•Identify and represent numbers using objects and pictorial	signs Identify, represent and estimate numbers using different	•Identify, represent and estimate numbers using	nearest 10, 100 or 1000 •Identify, represent and estimate numbers using different	000 to the nearest 10, 100, 1000, 10 000 and 100 000 •Read Roman numerals to 1000 (M) and recognise years written	required degree of accuracy
Representing number	on paper or pictures.	representations including the number line, & use language of: equal to, more than, less than (fewer), most, least •Read and write numbers from 1 to 20 in numerals and words •Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	representations, including the number line •Read and write numbers to at least 100 in numerals and in words	different representations •Read and write numbers up to 1000 in numerals and in words	_	in Roman numerals •Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
NPV		 Count within 100, forwards and backwards, starting with any number. Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = 	Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and nonstandard partitioning. Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.	 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three digit multiples of 10. Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning. Reason about the location of any three digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts. 	 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100. Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and nonstandard partitioning. Reason about the location of any fourdigit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each. Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. 	 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01. Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning. Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. Convert between units of measure, including using common decimals and fractions. 	 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000). Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning. Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
act	Using quantities and objects, they can add and subtract two single-digit numbers	 Given a number, identify one more and one less Represent and use number bonds and related subtraction facts within 		•Use place value and number facts to solve problems recall and use addition and subtraction facts to 20 fluently,			
Number f (+/-)		20		and derive and use related facts up to 100			

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number facts (x/÷)	Solve problems, including doubling, halving and sharing.		•Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	•Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	•Recall multiplication and division facts for multiplication tables up to 12 x 12	•Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers •Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers •Establish whether a number up to 100 is prime and recall prime numbers up to 19	•Identify common factors, common multiples and prime numbers
NF		 Develop fluency in addition and subtraction facts within 10. Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. 	Secure fluency in addition and subtraction facts within 10, through continued practice.	Secure fluency in addition and subtraction facts that bridge 10, through continued practice Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).	 Recall multiplication and division facts up to 12 X 12, and recognise products in multiplication tables as multiples of the corresponding number. Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100) 	Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).	See additional guidance on DFE publication for extending and recapping children's understanding. Pg 127 – 131 – DFE Guidance
Mental +/-	Using quantities and objects, they can add and subtract two single-digit numbers	•Add and subtract one-digit and two-digit numbers to 20, including zero	•Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TU+U, TU+T, TU+TU and U+U+U •Show that addition of two numbers can be done in any orde (commutative) and subtraction of one number from another cannot	mentally, including: HTU+U, HTU+T and HTU+H		•Add and subtract numbers mentally with increasingly large numbers	•Perform mental calculations, including with mixed operations and large numbers
Written +/-	Records, using marks that they can interpret and explain.			•Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	•Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	•Add and subtract whole numbers with more than 4 digits, including using formal written methods	

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Problems +/-	Shows an interest in number problems.	•Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ −9.	•Solve problems with addition and subtraction, using concrete, pictorial and abstract representations •Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	calculation and use inverse operations to check answers •Solve problems, including missing number problems,	•Estimate and use inverse operations to check answers to a calculation •Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	
AS		Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. Read, write and interpret equations containing addition, subtraction and equals symbols, and relate additive expressions and equations to real-life contexts.	 Add and subtract across 10. Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". Add and subtract within 100 by applying related one-digit addition and subtract only ones or only tens to/from a two-digit number. Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. 	 Calculate complements to 100. Add and subtract up to three-digit numbers using columnar methods. Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction. 			 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number). Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. Solve problems involving ratio relationships. Solve problems with 2 unknowns.
Mental (x/÷)			Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the		Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations	•Multiply and divide numbers mentally drawing upon known facts •Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Perform mental calculations, including with mixed operations and large numbers

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Written (x/÷)				•Progress to formal written methods calculations as above	•Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	•Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication •Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context •Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to context
Problems (x/÷)		involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with	•Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	•Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	•Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes *solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	Use their knowledge of the order of operations to carry out calculations involving the four operations Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
MD			 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division). 	problems with different structures, including quotitive and partitive division.	 Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication. Understand and apply the distributive property of multiplication. 	 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors. Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context. 	For year 6, MD ready-to-progress criteria are combined with AS ready-to-progress criteria (please see above).
Recognising fractions		 Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. 	quantity	•	Count up and down in hundredths; Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	•Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	
Comparing fractions				Compare and order unit fractions, and fractions with the same denominators Recognise and show, using diagrams, equivalent fractions with small denominators	•Recognise and show, using diagrams, families of common equivalent fractions	•Compare and order fractions whose denominators are all multiples of the same number •Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Use common factors to simplify fractions Use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1
Finding fractions of quantities				•Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators •Recognise and use fractions as numbers: unit fractions and non-unit 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		

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fraction calculations			•Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	•Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]	•Add and subtract fractions with the same denominator		•Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions •Multiply simple pairs of proper fractions, writing the answer in its simplest form •Divide proper fractions by whole numbers
Decimals as fractional amounts					•Recognise and write decimal equivalents of any number of tenths or hundredths •recognise and write decimal equivalents to ¼, ½ and ¾ •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		•Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction •Identify the value of each digit in numbers given to three decimal places
Ordering decimals					•Round decimals with one decimal place to the nearest whole number •Compare numbers with the same number of decimal places up to two decimal places	•Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents •Round decimals with two decimal places to the nearest whole number and to one decimal place •Read, write, order and compare numbers with up to three decimal places	
Calculating with decimals						•Multiply and divide numbers by 10, 100 and 1000 giving	 •Multiply one-digit number with up to two decimal places by whole numbers •Use written division methods in cases where the answer has up to two decimal places
Percentages						•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	•Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
Fraction problems				•Solve problems using all fraction knowledge	•Solve simple measure and money problems involving fractions and decimals to two decimal places	places •solve problems which require knowing percentage and decimal equivalents of ½, ¼,	•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.

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
L				 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. Find unit fractions of quantities using known division facts (multiplication tables fluency). Reason about the location of any fraction within 1 in the linear number system. Add and subtract fractions with the same denominator, within 1. 	 Reason about the location of mixed numbers in the linear number system. Convert mixed numbers to improper fractions and vice versa. Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers. 	 Find non-unit fractions of quantities. Find equivalent fractions and understand that they have the same value and the same position in the linear number system. Recall decimal fraction equivalents for ,1/2, 1/4, 1/5, and 1/10, and for multiples of these proper fractions. 	 Recognise when fractions can be simplified, and use common factors to simplify fractions. Express fractions in a common denomination and use this to compare fractions that are similar in value. Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.
Ratio & Proportion							•Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts •Solve problems involving similar shapes where the scale factor is known or can be found •Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
Algebra							Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables.

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measures	. Orders two or three items by length or height. •Orders two items by weight or capacity Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.	Compare, describe and solve practical problems for: length/height, weight/mass, capacity/volume & time Measure and begin to record 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 •Compare and order lengths, mass, volume/capacity and record the results using >, < and =	•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 Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Estimate volume and capacity	•Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate •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 convert between miles and kilometres
Measures				•Measure the perimeter of simple 2-D shapes	•Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares	•Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres •Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	•Recognise that shapes with the same areas can have different perimeters and vice versa •Recognise when it is possible to use formulae for area and volume of shapes •Calculate the area of parallelograms and triangles •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.
Money	Beginning to use everyday language related to money. Children use everyday language to talk about size, money to compare quantities and objects and to solve problems.	•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 •Find different combinations of coins that equal the same amounts of money •Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	•Add and subtract amounts of money to give change, using both £ and p in practical contexts		•Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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Time	Uses everyday language related to time. Children use everyday language to talk about time.	Sequence events in chronological order using language recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	•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 •Know the number of minutes in an hour and the number of hours in a day	analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks •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 •Know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events	Convert between different units of measure (e.g. Hours to minutes) Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	•Solve problems involving converting between units of time	
Shape sabula	They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them	 Recognise and name common 2-D shapes (e.g. Square, circle, triangle) Recognise and name common 3-D shapes (e.g. Cubes, cuboids, pyramids & spheres) 		Identify horizontal and vertical lines and pairs of perpendicular and parallel lines			•Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Properties of 2-d shape	Beginning to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes. •Selects a particular named shape.		•Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. •Compare and sort common 2-D and 3-D shapes and everyday objects.	•Draw 2-D shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry.	•Use the properties of rectangles to deduce related facts and find missing lengths and angles •Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	•Draw 2-D shapes using given dimensions and angles compare and classify geometric shapes based on their properties and sizes
Properties of 3-d shape	Beginning to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes. •Selects a particular named shape.		properties of 3-D shapes, including the number of edges, vertices and faces	•Make 3-D shapes using modelling materials recognise 3-D shapes in different orientations and describe them		•Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	•Recognise, describe and build simple 3-D shapes, including making nets •Find unknown angles in any triangles, quadrilaterals, and regular polygons

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Angles				•Recognise angles as a property of shape or a description of a turn •identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn •Identify whether angles are greater or less than right angle	•Identify acute and obtuse angles and compare and order angles up to two right angles by size	•Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles •draw given angles, and measure them in degrees (°) •Identify angles at a point and one whole turn (total 360°); at a point on a straight line and ½ a turn (total 180°) •Identify other multiples of 90°	•Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
Position & Direction	Children use everyday language to talk about position.	Describe position, direction and movement, including whole, half, quarter and three-quarter turns.	Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and 3/4 turns		Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon	Identify , describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	•Describe positions on the full coordinate grid (all four quadrants) •Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
Ð		 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. 	Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.	 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations. Draw polygons by joining marked points, and identify parallel and perpendicular sides. 	 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant. Identify regular polygons, including equilateral triangles and squares, as those in which the sidelengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons. Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. 	Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size. Compare areas and calculate the area of rectangles (including squares) using standard units.	Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.
Interpreting data			•Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	•Interpret and present data using bar charts, pictograms and tables	•Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	•Complete, read and interpret information in tables, including timetables	•Interpret and construct pie charts and line graphs calculate and interpret the mean as an average

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Extract info from data			•Ssk and answer simple questions by counting the number of objects in each category and sorting the categories by quantity •ask and answer questions about totalling	questions [for example, 'How many more?' and 'How many fewer?'] using information	•Solve comparison, sum and difference problems using information presented in bacharts, pictograms, tables a other graphs	difference problems using information presented in a line	•Use pie charts and line graphs to solve problems
ш			and comparing categorical data	and pictograms and tables			
NPV - Number and Place value NF - Number Facts			AS- Addition and Su	nd Subtraction MD- Multiplication and Division F - Fractions		F - Fractions	G- Geometry

The highlighted RED objectives are your non - negotiables from the DFE Guidance documents. There are links to videos for each year group that give a more comprehensive understanding.

You can find this guidance and these links at: https://www.gov.uk/government/publications/teaching-mathematics-in-primary-schools Videos can be found at: https://www.youtube.com/playlist?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D