BILSTON CHURCH OF ENGLAND PRIMARY

MATHEMATICS -



Number and Place Value

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
			COUNTING			
Verbally count beyond 20, recognising the pattern of the counting system	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			count backwards through zero to include negative numbers	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
Explore and represent patterns within numbers up to IO, including evens and odds, double facts and	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	count from 0 in multiples of 4, 8, 50 and 100;	count in multiples of 6, 7, 9, 25 and 1000	Count forwards or backwards in steps of power of 10 for any given number up to 1000000	
how quantities can be distributed equally.	given a number, identify one more and one less		find 10 or 100 more or less than a given number	find 1000 more or less than a given number		
			COMPARING NUMBERS			
Compare quantities up to 10 in different contexts, recognising when one quantity is	use the language of: equal to, more than, less than (fewer), most, least	compare and order numbers from 0 up to 100; use and = signs	compare and order numbers up to 1000	order and compare numbers beyond 1,000	read, write, order and compare numbers to at least 1 000 000 and determine the	read, write, order and compare numbers up to 10 000 000 and
greater than, less than or the same as the other quantity.				compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	value of each digit (appears also in Reading and Writing Numbers)	determine the value of each digit (appears also in Reading and Writing Numbers)

		IDENTIFYING REPI	RESENTING AND ESTIM	ATING NUMBERS			
Subitise (recognise quantities without counting) up to 5.	identify and represent numbers using objects and pictorial representations including the number line	identify, represent and estimate numbers using different representations, including the number line	identify, represent and estimate numbers using different representations	identify, represent and estimate numbers using different representations			
READING AND WRITING NUMBERS							
	read and write numbers from I to 20 in numerals and words.	read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1000 in numerals and in words tell and write the time from an analogue clock, including using Roman numerals from I to XII, and I2-hour and 24-hour clocks (copied from	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.	read, write, order and compare numbers to at least I 000 000 and determine the value of each digit (appears also book b Comparing Numbers) read Roman numerals to 1000 (M) and recognise years written in Roman numerals	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)	
			Measurement)				
		UNDE	ERSTANDING PLACE VA I	ALUE TO THE REPORT OF THE PERSON OF THE PERS			
Have a deep understanding of number to IO, including the composition of each number.		recognise the place value of each digit in a two-digit number (tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	

			find the effect of dividing a one- or two-digit number by IO and IOO, identifying the value of the digits in the answer as units, tenths and hundredths (copied from Fractions)	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places (copied Fractions)
		ROUNDING			
			round any number to the nearest 10, 100 or 1 000	round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	round any whole number to a required degree of accuracy
			round decimals with one decimal place to the nearest whole number (copied from Fractions)	round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)
		PROBLEM SOLVING			
	use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.	solve number and practical problems that involve all of the above and with increasingly large positive numbers	solve number problems and practical problems that involve all of the above	solve number and practical problems that involve all of the above

Addition and Subtraction

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
			NUMBER BONDS			
Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				
		M	ENTAL CALCULATION	5		
	and subtract one-digit and twodigit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two- digit number and tens * two two-digit numbers * adding three one-digit numbers	add and subtract numbers mentally, including: * a three- digit number and ones * a three-digit number and tens * a three-digit number and hundreds		add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
	read, write and interpret mathematical statements involving addition (+), subtraction (-) equals	show that addition of two numbers can be done in any order (commutative) and subtraction of one				use their knowledge of the order of operations to carry out calculations involving the four operations

(=) signs (also in Written Methods)	number from another cannot				
		WRITTEN METHODS			
read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears in Mental Calculation)		add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (CP — Move to Y4)	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 (columnar addition and subtraction)	
	INVERSE OPERATIO	ON ESTIMATING AND C	HECKING NUMBERS		
	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
		PROBLEM SOLVING			
solve one-step proble that involve addition and subtraction, us concrete objects and pictorial representations, and missing number problems such as 7 * - 9	addition and subtraction: * using concrete objects and pictorial representations, including those	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	Solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why	Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Measurement)		solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from	Solve problems involving addition, subtraction, multiplication and division
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Multiplication and Division

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		MUL	_TIPLICATION AND DIVISI	ON		
	Count in multiples of twos, fives and tens (copied from Number and Place Value	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value)	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value)	count in multiples of 6, 7, 9, 25 and 1,000 (copied from Number and Place Value)	count forwards or backwards in steps of powers of IO for any given number up to I OOO OOO (copied from Number and Place Value)	
		recall and use multiplication and division facts for the 2, 5 and IO 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 × 12		
		N	MENTAL CALCULATION	l e		
			Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (appears also in Written Methods)	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	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers

show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers)	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	ssociate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3 /8) (copied from Fractions)
٧	VRITTEN CALCULATION	N		
calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (CP — Move to YI+) (appears also in Mental Methods)	multiply two-digit and three-digit numbers by a one-digit number using formal written layout (CP — Move to Y5)	multiply numbers up to 4 digits by a oneor two-digit number using a formal written method, including long multiplication for two- digit numbers divide numbers up to 4 digits by a onedigit 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 twodigit whole number using the formal written method of short division where appropriate for the context 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

					use written division methods in cases where the answer has up to two decimal places (copied from Fractions (including decimals))
PROPERTIE	ES OF NUMBERS: MULT	IPLES, FACTORS, PRIME	S, SQUARE AND CUBE	NUMBERS	
			recognise and use factor pairs and commutativity in mental calculations (repeated)	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)

			now 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 recognise and use square numbers, and the notation for squared (2) and cubed (3)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm 3) and cubic metres (m 3), and extending to other units such as mm and km (copied from measures)
(ORDER OF OPERATIONS			
				use their knowledge of the order of operations to carry out calculations involving the four operations
INVERSE OPERATION	N, ESTIMATING AND C	HECKING NUMEBRS		
	estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
	PROBLEM SOLVING			

solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher (CP — Move to Y2	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) 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	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition,	solve problems involving addition, subtraction, multiplication and division
		to m objects	to m objects	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	solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion

Fractions (including decimals and percentages)

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		COUN	TING IN FRACTIONAL S	STEPS		
		Pupils should count in fractions up to IO, starting from any number and using the I/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths		
		RE	COGNISING FRACTION	S		
	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	recognise, find, name and write fractions I / 3 , I / 4 , 2 / 4 and 3 / 4 of a length, shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise that tenths arise from dividing an object into IO equal parts and in dividing one — digit numbers or quantities by IO. recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	

		compare and order unit fractions, and fractions with the same denominators (CP — Move to Y4)	compare numbers with the same number of decimal places up to two decimal places	compare and order fractions whose denominators are all multiples of the same number read, write, order and compare numbers with up to three decimal places	compare and order fractions, including fractions > identify the value of each digit in numbers given to three decimal places
			(CP — Move to Y4)	'	'
	ROUN	IDING INCLUDING DECIN	MALS		
			round decimals with one decimal place to the nearest whole number (CP — Move to Y5)	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy
Е	QUIVALENCE INCLUDIN	NG FRACTIONS, DECIAN	ILS AND PERCENTAGES	ò	
	write simple fractions e.g. □ of 6 = 3 and recognise the equivalence of 2/4 and □.	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions	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
			recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. 0.71 = 71/100)	associate a fraction with division and calculate decimal fraction equivalents (e.g. recognise and use thousandths and relate 0.375)

			recognise and write decimal equivalents to	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 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 as a	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
				decimal fraction	
	ADDITION A	ND SUBTRACTION OF I	FRACTIONS		
		add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples of the same number	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
				recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements>I as a mixed number (e.g 2/5+4/5=6/5 =I I/5)	L.
	MULTIPLICAT	TION AND DIVISION OF	FRACTIONS		

	MULTIPLICA	TION AND DIVISION OF	DECIMALS	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g.1/4 x 1/2 = 1/8 multiply one-digit numbers with up to two decimal places by whole numbers Divide proper fractions by whole numbers (e.g.1/3divided by 2=1/6)	
			find the effect of dividing a one- or twodigit number by IO and IOO, identifying the value of the digits in the answer as ones, tenths and hundredths (CP — Move to Y5)		multiply one-digit numbers with up to two decimal places by whole numbers multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places	

				identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3 /8) use written division methods in cases where the answer has up to two decimal places
	PROBLEM SOLVING			
	solve problems that involve all of the above	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	solve problems involving numbers up to three decimal places	

denominator of a				a ii a	and money problems nvolving fractions and decimals to two decimal places. (CP — Move to Y5)	5 , 2 / 5 , 4 / 5 and those with a	
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Ratio and Proportion

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
			COUNTING			
						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 the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
						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

Measurement

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6		
COMPARING AND ESTIMATING								
	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	Compare and order lengths, mass, volume/capacity and record the results using >, < and =		estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm 2) and square metres (m 2) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using I cm 3 blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm 3) and cubic metres (m 3), and extending to other units such as mm 3 and km 3.		
	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday,	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks					

tomorrow, morning, afternoon and evening	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time) tell and write the time from an analogue clock, including using Roman numerals from I to XII, and I2-hour and 24-hour clocks (copied from Measurement)	
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MEASURING AND CALCULATING

measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)	choose and use appropriate standard units to estimate and measure length/height in any direction (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)	estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)	Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Converting)
		measure the perimeter of simple 2-D shapes (CP — Move to Y4)	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	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

Geometry- Properties of shapes

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
		IDENTIFYING	G SHAPES AND THIER F	PROPERTIES		
	recognise and name common 2-D and 3-D shapes, including: *2-D shapes [e.g. rectangles (including squares), circles and triangles] *3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line		identify lines of symmetry in 2–D shapes presented in different orientations	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)
		identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces				illustrate and name parts of circles, including radius, diameter and circumference and
		identify 2-D shapes on the surface of 3-d shapes [for example, a circle on a cylinder and a triangle on a pyramid]				know that the diameter is twice the radius
		DRAV	VING AND CONSTRUCT	TING		
			draw 2-D shapes and make 3-D shapes using modelling materials; recognise	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (o)	draw 2-D shapes using given dimensions and angles
			3-D shapes in different orientations and describe them			recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)

COM	IPARING AND CLASSIFY	ING		
compare and sort common 2-D and 3- D shapes and everyday objects		compare and classify geometric shapes, including quadrilaterals and triangles, based on	use the properties of rectangles to deduce related facts and find missing lengths and angles	compare and classify geometric shapes based on their properties and sizes and find unknown
sizes	their properties and sizes	distinguish between regular and irregular polygons based on reasoning about equal sides and angles	angles in any triangles, quadrilaterals, and regular polygons	
	ANGLES			
	recognise angles as a property of shape or a description of a turn		know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
	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 than or less than a right angle	identify acute and obtuse angles and compare and order angles up to two right angles by size	identify: * angles at a point and one whole turn (total 360 o) * angles at a point on a straight line and \(\sigma \) a turn (total 180 o) * other multiples of 90 o	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
	ldentify horizontal and vertical lines and pairs of perpendicular and parallel lines			

Geometry-Properties of Direction

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	
POSITION, DIRECTION AND MOVEMENT							
	describe position, direction and movement, including half, quarter and three-quarter turns.	use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn		describe positions on a 2-D grid as coordinates in the first quadrant	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)	
		and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)		describe movements between positions as translations of a given unit to the left/right and up/down		draw and translate simple shapes on the coordinate plane and reflect them in the axes.	
				plot specified points and draw sides to complete a given polygon			
PATTERN							
		order and arrange combinations of mathematical objects					

in patterns and		
sequences		

Statistics

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	
INTERPRETING, CONSTRUCTING AND PRESENTING 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 and use these to solve problems	
		ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity		grupts			
		ask and answer questions about totalling and comparing categorical data					
			SOLVING PROBLEMS				
			solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average	
					read Roman numerals to 1000 (M) and		

	recognise years written in Roman numerals
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Algebra

EYFS	YEAR I	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	
EQUATIONS							
	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = * - 9 (copied from	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)	use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	express missing number problems algebraically	
	Addition and Subtraction)	Subtraction)	solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)	solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)			
		recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)				find pairs of numbers that satisfy number sentences involving two unknowns	

represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)					enumerate all possibilities of combinations of two variables
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