		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Counting	-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 of twos, fives and tens -given a number, identify one more and one less	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; find 10 or 100 more or less than a given number	count backwards through zero to include negative numbers count in multiples of 6, 7, 9, 25 and 1 000 find 1 000 more or less than a given number	-interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero -count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	use negative numbers in context, and calculate intervals across zero
⁄alue	Comparing Numbers	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 1 000	-order and compare numbers beyond 1 000 -compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	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)
and Place	Identifyi ng Represe	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		
Number: Number and Place Value	Reading and Writing Numbers (including Roman Numerals)	read and write numbers from 1 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 1 000 in numerals and in words -tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (copied from Measurement)	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 1 000 000& determine the value of each digit (appears also in Comparing Numbers) -read Roman numerals to 1 000 (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)
	UnderstANDING Place Value		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) 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 units, tenths and hundredths (copied from Fractions)	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) -recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	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) -identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1 000 where the answers are up to three

					decimal places (copied from Fractions)
Rounding			round any number to the nearest 10, 100 or 1 000 round decimals with one decimal place to the nearest whole number (copied from Fractions)	-round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000 -round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	round any whole number to a required degree of accuracy 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

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Number Bonds	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				
	Mental Calculations	add and subtract one-digit and two-digit numbers to 20, including zero read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	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 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	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 use their knowledge of the order of operations to carry out calculations involving the four operations
	Written Methods	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation)		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 (columnar addition and subtraction)	
btraction	Inverse operations, recognizing and checking		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.
Number: Addition and Subtraction	Problem Solving	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = \square - 9	solve problems with addition and subtraction: -using concrete objects and pictorial representations, including those involving numbers, quantities and measures -applying their increasing knowledge of mental and written methods -solve simple problems in a practical context involving	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step 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	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

Hilton	Lane Primary School
	Maths Overview

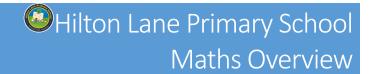
ſ		addition and subtraction of		
		money of the same unit,		
		including giving change (copied		
		from Measurement)		

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Multiplication and Division Facts	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) recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value) recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value) recall multiplication and division facts for multiplication tables up to 12 × 12	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (copied from Number and Place Value)	
	Mental Calculations		show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	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 recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers)	multiply and divide numbers mentally drawing upon known facts recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers)	perform mental calculations, including with mixed operations and large numbers associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) (copied from Fractions)
Number: Multiplication and Division	Written Methods		calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), 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 (appears also in Mental Methods)	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 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 rounding, as appropriate for the context use written division methods in cases where the answer has up

					to two decimal places (copied from Fractions (including decimals))
S, PRIMES,			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
PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE AND CUBE NUMBERS				know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers establish whether a number up	use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)
ES OF NUMBERS: ND CUBE NUMBE				to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers,	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed
PROPERTII SQUARE A				and the notation for squared (2) and cubed (3)	(cm3) and cubic metres (m3), and extending to other units such as mm3 and km3 (copied from Measures)
Order of Operatio ns					use their knowledge of the order of operations to carry out calculations involving the four operations
Inverse operations checking and estimating answers.		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

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
ges)	Counting in Fractional		Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths		
Number: Fractions (including decimals and percentages)	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	recognise, find, name and write fractions 1/3, 1/4, 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 10 equal parts and in dividing one – digit numbers or quantities by 10. 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)	
r: Fraction	Compari ng Fraction			compare and order unit fractions, and fractions with the same denominators		compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1
Numbe	Compair ng Decimals				compare numbers with the same number of decimal places up to two decimal places	read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places
	Rounding including decimals				round decimals with one decimal place to the nearest whole number	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
	Equivalence (including fractions, decimals and percentages)		write simple fractions e.g. 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredths	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths read and write decimal numbers as fractions (e.g. 0.71 = 71/100)	use common factors to simplify fractions; use common multiples to express fractions in the same denomination associate a fraction with division and calculate decimal fraction equivalents (e.g.

			recognise and write decimal equivalents to 1/4; 1/2; 3/4	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 decimal fraction	0.375) for a simple fraction (e.g. 3/8) recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
Addition and Subtraction of 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 recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5)	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Multiplication and Divsionn of Fractions				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. $1/4 \times 1/2 = 1/8$) multiply one-digit numbers with up to two decimal places by whole numbers divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$)
Multiplication and Division of Decimals			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		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 simple measure and money problems involving fractions and decimals to two decimal places.	solve problems involving numbers up to three decimal places solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25.	

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Multiplication and division						solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
ion	Percentage						solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
and proportion	Scale factors						solve problems involving similar shapes where the scale factor is known or can be found
Ratio ar	Fractions and multiples						solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Comparing and ordering measurement (including area and volume)	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 (cm²) and square metres (m²) and estimate the area of irregular shapes (also included in measuring)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m¹), and extending to other units such as mm³ and km³.
Comparing and ordering time	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks			
Estimation of time			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)			
Measuring: length, mass, volume, capacity and money (including	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 (I/mI)	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)
Perimeter		<u> </u>	measure the perimeter of simple 2-D shapes	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 differer perimeters and vice versa

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_	recognise and know the value of different denominations of	recognise and use symbols for pounds (£) and pence (p);	add and subtract amounts of money to give change, using			
Money: including addition and subtraction	coins and notes	combine amounts to make a	both £ and p in practical			
btra	como ana notes	particular value	contexts			
ns p		·				
anc		find different combinations of				
tion		coins that equal the same				
addi		amounts of money				
ing						
clud		solve simple problems in a				
i.		practical context involving addition and subtraction of				
)auc		money of the same unit,				
ž		including giving change				
				find the area of rectilinear	calculate and compare the area	calculate the area of
				shapes by counting squares	of squares and rectangles	parallelograms and triangles
ulae					including using standard units,	calculate, estimate and
Area and volume: counting, use of fomulae, standard units and expressions					square centimetres (cm ²) and	compare volume of cubes and cuboids using standard units,
e of					square metres (m ²) and	including cubic centimetres
, us					estimate the area of irregular	3 3
ress					shapes	(cm) and cubic metres (m), and extending to other units
exp						2 2
ne: and					recognise and use square numbers and cube numbers,	[e.g. mm and km]. recognise when it is possible to
olun					and the notation for squared	use formulae for area and
ν p					1 1	volume of shapes
ndar					(²) and cubed (³) (copied from Multiplication	voidine of shapes
Are					and Division)	
	tell the time to the hour and	tell and write the time to five	tell and write the time from an	read, write and convert time	a 2.1151011)	
Time: 12 and 24 hour clock	half past the hour and draw	minutes, including quarter	analogue clock, including using	between analogue and digital		
24 h	the hands on a clock face to	past/to the hour and draw the	Roman numerals from I to XII,	12 and 24-hour clocks		
ime ind 3	show these times.	hands on a clock face to show	and 12-hour and 24-hour	(appears also in Converting)		
F 8 0		these times.	clocks			
	recognise and use language relating to dates, including	know the number of minutes in an hour and the number of	estimate and read			
	days of the week, weeks,	hours in a day.	time with increasing accuracy to the nearest minute; record			
O O	months and years	(appears also in Converting)	and compare time in terms of			
nag	months and years	(appears also in converting)	seconds, minutes, hours and			
Time: key vocabulary/language			o'clock; use vocabulary such as			
ary/			a.m./p.m., morning, afternoon,			
e: ke			noon and midnight			
rime			(appears also in Comparing and			
F 2			Estimating)			

Time: Problem Solving			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems involving converting between units of time	
Converting: standard metric units of length, mass, volume and time	know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	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
Converting: units of time, measure and decimals			read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating)
Converting: including metric to imperial			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres

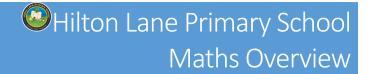
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	including nets	recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids	identify and describe the properties of 2-D shapes, including the number of sides and 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)
	Key features of 2D and 3D shapes including nets	(including cubes), pyramids and spheres].	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 know that the diameter is twice the radius
	Key features of		identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]				
	es			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees $\stackrel{\circ}{(}$	draw 2-D shapes using given dimensions and angles
	Draw/build: 2D, 3D and angles			and describe them			recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)
Geometry: Properties of shape			compare and sort common 2-D and 3-D shapes and everyday		compare and classify geometric shapes, including	use the properties of rectangles to deduce related	compare and classify geometric shapes based on
Propertie	sify 2D and 3D		objects		quadrilaterals and triangles, based on their properties and sizes	facts and find missing lengths and angles	their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
eometry:	Compare and classify 2D and 3D shapes					distinguish between regular and irregular polygons based on reasoning about equal sides and angles	

Angle properties		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 angles : known facts and use of protractor		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 from known facts and with a protractor and compare and order angles up to two right angles by size	identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and ½ a turn (total 180°) * 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
Lines		identify horizontal and vertical lines and pairs of perpendicular and parallel lines			

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
ection	and use of co-ordinates	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 and in terms of right angles for quarter, half and three-quarter 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	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.
and dire	Turns		(clockwise and anti-clockwise)				daes.
position	Completing polygons				plot specified points and draw sides to complete a given polygon		
Geometry:	Patterns and sequences		order and arrange combinations of mathematical objects in patterns and sequences				

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Presenting data: graphs and charts		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
	Questions: counting and sorting		ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity				
	Questions: totaling and comparing		ask and answer questions about totalling and comparing categorical data				
Statistics	Problem Solving using graphs, including averages			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

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Problem Solving: missing numbers and lengths		solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = \square - 9 (copied from Addition and Subtraction)	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (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) solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)		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
Related	number facts (addition		recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				find pairs of numbers that satisfy number sentences involving two unknowns
	facts: finding all possibilities	represent and use number bonds and related subtraction facts within 20					enumerate all possibilities of combinations of two variables
Simple formulae:	perimeter, area, volume				Perimeter can be expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit.		recognise when it is possible t use formulae for area and volume of shapes (copied from Measurement)
Sequences		sequence events in chronological order using language such as: before and after, next, first, today,	compare and sequence intervals of time (copied from Measurement)				generate and describe linear number sequences



	yesterday, tomorrow, morning,	order and arrange		
	afternoon and evening	combinations of mathematical		
	(copied from Measurement)	objects in patterns		
		(copied from Geometry:		
		position and direction)		