NUMBER & PLACE VALUE								
COUNTING								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
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			
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 powers of 10 for any given number up to 1000 000				
given a number, identify		find 10 or 100 more or	find 1000 more or less					
one more and one less		less than a given number	than a given number					
		COMPARIN	G 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 1000	order and compare numbers beyond 1000 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 ESTIMATING NUMBER	\$				
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 & PLACE VALUE								
	READING AND WRITING NUMBERS (including Roman Numerals)							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
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 1000 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 and determine the value of each digit (appears also in 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)			
		UNDERSTANDIN	IG 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 1000 where the answers are up to three decimal places (copied from Fractions)			

	NUMBER & PLACE VALUE								
	ROUNDING								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
			round any number to the nearest 10, 100 or 1000	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								
NUMBER BONDS									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
represent and use	recall and use addition and								
number bonds and	subtraction facts to 20								
related subtraction facts	fluently, and derive and								
within 20	use related facts up to 100								
		MENTAL (CALCULATION						
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: * 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 tens		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 (-) and equals (=) signs (appears also in Written Methods)	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				use their knowledge of the order of operations to carry out calculations involving the four operations				

	ADDITION AND SUBTRACTION								
WRITTEN METHODS									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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)					
	INV	VERSE OPERATIONS, ESTIM	IATING AND CHECKING ANS	WERS					
	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.				

	ADDITION AND SUBTRACTION								
PROBLEM SOLVING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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 addition and subtraction of money of the same unit, including giving change (copied from Measurement)	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				

	MULTIPLICATION & DIVISION MULTIPLICATION & DIVISION FACTS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
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 1000 (copied from Number and Place Value)	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)				
	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 × 12					
		MENTAL CALCU	LATION					
		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	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)			

MULTIPLICATION & DIVISION								
		WRITTEN	CALCULATION					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	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 (appears also in Mental	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	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication			
		Methods)		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	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))			

	MULTIPLICATION & DIVISION							
Vear 1	PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE AND CUBE NUMBERS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6							
			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. know and use the vocabulary of prime numbers, prime factors and composite (nonprime) 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 use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)			
				recognise and use square numbers and cube 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 (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³ (copied from Measures)			

	MULTIPLICATION & DIVISION									
	ORDER OF OPERATIONS									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
					use their knowledge of the order of operations to carry out calculations involving the four operations					
	IN	VERSE OPERATIONS, ESTIMA	TING AND CHECKING ANSW	ERS						
		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					

	MULTIPLICATION & DIVISION								
PROBLEM SOLVING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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	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	solve problems involving addition, subtraction, multiplication and division solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)				

		FRACTIONS (INCLUDING DE	CIMALS AND PERCENTAGES)					
COUNTING IN FRACTIONAL STEPS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	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					
		RECOGNISIN	G FRACTIONS					
recognise, find and name a half as one of two equal parts of an object, shape or quantity	recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ 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 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)				
		recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.						
recognise, find and name a quarter as one of four equal parts of an object, shape or quantity		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators						
		COMPARING	FRACTIONS					
		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			

	FRACTIONS (INCLUDING DECIMALS AND PERCENTAGES)								
	COMPARING DECIMALS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
			compare numbers with the	read, write, order and compare	identify the value of each digit				
			same number of decimal	numbers with up to three decimal	in numbers given to three				
			places up to two decimal	places	decimal places				
			places						
			ROUNDING INCLUDING DEC						
			round decimals with one	round decimals with two decimal places	solve problems which require				
			decimal place to the nearest	to the nearest whole number and to	answers to be rounded to				
			whole number	one decimal place	specified degrees of accuracy				
		EQUIVALENCE	(INCLUDING FRACTIONS, DECIN						
	write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	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. $0.71 = \frac{71}{100}$)	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. 0.375) for a simple fraction				
				recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	(e.g. ³ / ₈)				
			recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	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	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.				

	FRACTIONS (INCLUDING DECIMALS AND PERCENTAGES) ADDITION AND SUBTRACTION OF FRACTIONS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	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. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions				
		MULTIPLICATION AND [DIVISION OF FRACTIONS	3					
				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. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) multiply one-digit numbers with up to two decimal places by whole numbers divide proper fractions by				
					whole numbers (e.g. $\frac{1}{3}$ ÷ $2 = \frac{1}{6}$)				

	FRACTIONS (INCLUDING DECIMALS AND PERCENTAGES)								
	MULTIPLICATION AND DIVISION OF DECIMALS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
					multiply one-digit				
					numbers with up to two				
					decimal places by whole				
					numbers				
			find the effect of dividing		multiply and divide				
			a one- or two-digit		numbers by 10, 100 and				
			number by 10 and 100,		1000 where the answers				
			identifying the value of		are up to three decimal				
			the digits in the answer as		places				
			ones, tenths and						
			hundredths						
					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				
					-				

	FRACTIONS (INCLUDING DECIMALS AND PERCENTAGES)								
PROBLEM SOLVING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		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					
			solve simple measure and money problems involving fractions and decimals to two decimal places.	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.					

Chalana	RATIO & PROPORTION Statements only appear in Year 6 but should be connected to previous learning, particularly fractions and multiplication and division							
Statemer	nts only appear in Year 6 but	should be connected to prev	rious learning, particularly fra	ictions and multiplication and	Year 6			
					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.			

MEASURE MEASURE										
	COMPARING AND ESTIMATING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
compare, describe and	compare and order		estimate, compare	calculate and compare	calculate, estimate and					
solve practical problems	lengths, mass,		and calculate	the area of squares and	compare volume of					
for:	volume/capacity and		different measures,	rectangles including using	cubes and cuboids					
* lengths and heights	record the results using		including money in	standard units, square	using standard units,					
[e.g. long/short,	>, < and =		pounds and pence	centimetres (cm ²) and	including centimetre					
longer/shorter,			(also included in	2	cubed (cm ³) and cubic					
tall/short, double/half]			Measuring)	square metres (m) and estimate the area of	metres (m ³), and					
* mass/weight [e.g.				irregular shapes (also	extending to other					
heavy/light, heavier				included in measuring)	3					
than, lighter than]				estimate volume (e.g.	units such as mm and					
capacity and volume				_ ` •	km ³ .					
[e.g. full/empty, more				using 1 cm³ blocks to						
than, less than, half,				build cubes and cuboids)						
half full, quarter]				and capacity (e.g. using						
* time [e.g. quicker,				water)						
slower, earlier, later]										
sequence events in	compare and sequence	compare durations of events, for								
chronological order using	intervals of time	example to calculate the time taken by								
language [e.g. before and		particular events or tasks								
after, next, first, today,										
yesterday, 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)								

	MEASURE MEASURE									
	MEASURING and CALCULATING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
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)					
		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 different perimeters and vice versa					

	MEASURE MEASURE							
		l e e e e e e e e e e e e e e e e e e e	IRING and CALCULAT					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
recognise and know the value of different	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	add and subtract amounts of money to give change, using both £ and p						
denominations of coins and notes	find different combinations of coins that equal the same amounts of money	in practical contexts						
	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change							
			find the area of rectilinear shapes by counting	calculate and compare the area of squares and rectangles including using standard units,	calculate the area of parallelograms and triangles			
			squares	square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres			
				recognise and use square numbers and cube numbers, and the notation for squared (²) and	(m ³), and extending to other units [e.g. mm ³ and km ³].			
				cubed (3) (copied from Multiplication and Division)	recognise when it is possible to use formulae for area and volume of shapes			

MEASURE MEASURE							
		TELLING TELLING	ГНЕ ТІМЕ				
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
tell the time to the hour	tell and write the time to	tell and write the time	read, write and convert				
and half past the hour and	five minutes, including	from an analogue clock,	time between analogue				
draw the hands on a clock	quarter past/to the hour	including using Roman	and digital 12 and 24-hour				
face to show these times.	and draw the hands on a	numerals from I to XII, and	clocks				
	clock face to show these	12-hour and 24-hour	(appears also in Converting)				
	times.	clocks					
recognise and use	know the number of	estimate and read					
language relating to dates,	minutes in an hour and	time with increasing					
including days of the	the number of hours in a	accuracy to the nearest					
week, weeks, months and	day.	minute; record and					
years	(appears also in Converting)	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 Comparing					
		and Estimating)					
			solve problems involving	solve problems involving			
			converting from hours to	converting between units			
			minutes; minutes to	of time			
			seconds; years to months;				
			weeks to days				
			(appears also in Converting)				

	MEASURE MEASURE							
		CONVE						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	e number of minutes	know the number of	convert between different	convert between	use, read, write and			
in an hou	ur and the number of	seconds in a minute and the	units of measure (e.g.	different units of metric	convert between standard			
hours in	•	number of days in each	kilometre to metre; hour	measure (e.g. kilometre	units, converting			
(appears	also in Telling the Time)	month, year and leap year	to minute)	and metre; centimetre	measurements of length,			
				and metre; centimetre	mass, volume and time			
				and millimetre; gram and	from a smaller unit of			
				kilogram; litre and	measure to a larger unit,			
				millilitre)	and vice versa, using			
					decimal notation to up to			
					three decimal places			
			read, write and convert	solve problems involving	solve problems involving			
			time between analogue	converting between units	the calculation and			
			and digital 12 and 24-hour	of time	conversion of units of			
			clocks		measure, using decimal			
			(appears also in Converting)		notation up to three			
					decimal places where			
					appropriate			
					(appears also in Measuring			
			salva problems involving	understand and use	and Calculating) convert between miles			
			solve problems involving converting from hours to		and kilometres			
			minutes; minutes to	equivalences between metric units and common	and knometres			
			seconds; years to months;	imperial units such as				
			weeks to days	inches, pounds and pints				
			(appears also in Telling the	menes, pountas ana pints				
			Time)					

	GEOMETRY: PROPERTIES OF SHAPE								
	IDENTIFYING SHAPES AND THIER PROPERTIES								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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 and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]	Teal 3	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) illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius				
		DRAWING AND	CONCEDUCTING						
			CONSTRUCTING	draw given apples and	draw 2 Dicharas vains				
		draw 2-D shapes and make 3-D shapes using modelling materials;	complete a simple symmetric figure with respect to a specific line of	draw given angles, and measure them in degrees	draw 2-D shapes using given dimensions and angles				
		recognise 3-D shapes in different orientations and describe them	symmetry		recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)				

		GEOMETRY:	PROPERTIES OF SHAPE		
			NG AND CLASSIFYING		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	compare and sort common 2-D and 3-D shapes and everyday objects		compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	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 angles in any triangles, quadrilaterals, and regular polygons
				distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
			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°) * 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
		identify horizontal and vertical lines and pairs of perpendicular and parallel lines			

GEOMETRY: POSITION AND DIRECTION								
POSITION, DIRECTION AND MOVEMENT								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
describe position,	use mathematical		describe positions on a	identify, describe and	describe positions on the			
direction and movement,	vocabulary to describe		2-D grid as coordinates in	represent the position of a	full coordinate grid (all			
including half, quarter and	position, direction and		the first quadrant	shape following a	four quadrants)			
three-quarter turns.	movement including			reflection or translation,				
	movement in a straight		describe movements	using the appropriate	draw and translate simple			
	line and distinguishing		between positions as	language, and know that	shapes on the coordinate			
	between rotation as a		translations of a given unit	the shape has not	plane, and reflect them in			
	turn and in terms of right		to the left/right and	changed	the axes.			
	angles for quarter, half		up/down					
	and three-quarter turns							
	(clockwise and							
	anti-clockwise)							
			plot specified points and					
			draw sides to complete a					
			given polygon					
PATTERN								
	order and arrange							
	combinations of							
	mathematical objects in							
	patterns and sequences							

STATISTICS STATISTICS								
INTERPRETING, CONSTRUCTING AND PRESENTING DATA								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	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 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			

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INTERPRETING, CONSTRUCTING AND PRESENTING DATA								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	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			
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	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			