Progression Document: Maths



			Place	Value		
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Counting	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count numbers to 100 in numerals; count in multiple of twos, fives and tens	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	Count in multiples of 6, 7, 9, 25 and 1000 Count backwards through zero to include negative numbers	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 Count forwards and backwards with positive and negative whole numbers, including	
Place Value: Represent	Identify and represent numbers using objects and pictorial representations read and write numbers to 100 in 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 Identify, represent and estimate numbers using different representations, including the number line	Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals and in words	Identify, represent and estimate numbers using different representation 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	through zero Read, write, (order and compare) umbers to at least 1,000,000 and determine the value of each digit 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

Place Value: Use PV and Compare	Given a number, identify one more and one less	Recognise the place value of each digit in a two-digit number (tens, ones) Compare and order numbers from 0 up to 100; use <,> and = signs	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Compare and order numbers up to 1000	Find 1000 more or less than a give number]recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Order and compare numbers beyond 1000	(Read, write) order and compare numbers to at least 1,000,000 and determine the value of each digit	(Read, write) order and compare numbers up to 10,000,000 and determine the value of each digit
Place Value: Problem and Rounding		Problem & Rounding Use place value and number facts to solve problems	Solve number problems and practical problems involving these ideas	Round any number to the nearest 0, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers	Interpret negative numbers in context Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 Solve number problems and practical problems that involve all of the above	Round any whole number to a require degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number ad practical problems that involve all of the above

Number	Number to one hundred	Numbers to one thousand	Tenths	Powers of 10	Numbers to ten million
Zero, one, to, three to	Hundreds	Integer	hundredths	Roman numerals (I to C)	
twenty and beyond	Partition, recombine	Interval	Decimal place		Ones
None	Hundred more/less	More	Round to the nearest	Actual Roman numerals	Tens
Count (on/up to/from/down)			Thousand more/less than		Hundreds
Before, after	More than		Negative integers		Thousands
More, less	Less than	Odd	Count through zero		Ten thousands
Many, few,	Equal to	Even			One hundred thousands
Fewer, least	The same as	Tens	Tens		Millions
Fewest, smallest,	Odd	Ones	Ones		Ten Millions
Greater, lesser	Even	Hundreds	Hundreds		
Equal to,	Tens	Ten more	Ten more		
the same as	Ones	Ten less	Ten less		
Odd,	Ten more	Hundred more	Hundred more		
even	Ten less	Hundred less	Hundred less		
Pair			Thousand more		
Units,			Thousand less		
ones,					
tens					
Ten more					
ten less					
Digit					
Numeral					
Figure(s)					
Compare					
(In) order/a different order					
Size					
Value					
Between, halfway between					
Above, below					

Addition & Subtraction						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

Read, write and	Recall and use addition	Estimate the answer to	Estimate and use	Use rounding to check	
interpret mathematical	and subtraction facts to	a calculation and use	inverse operations to	answers to calculations	
statements involving	20 fluently, and derive	inverse operations to	check answer to a	and determine, in the	
addition (+),	and use related facts up	check answers	calculation	context of a problems,	
subtraction (-) and	to 100			levels of accuracy	
equals (=) signs					
	Show that addition of				
Represent and use	two numbers can be				
number bonds and	done in any order				
related subtraction	(commutative) and				
facts within 20	subtraction of one				
	number from another				
	cannot				
	Recognise and use the				
	inverse relationship				
	between addition and				
	subtraction and use this				
	to check calculations				
	and solve missing				
	number problems				

Addition and Subtraction: Recall, Represent, Use

Addition and Subtraction: Calculations	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 number mentally including; - A three-digit number and ones - A three-digit and tens - A three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition	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) 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
Addition and Subtraction: Solve Problems	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representation, and missing number problems such as 7 = ? - 9	Solve problems with addition an subtractions: - Using concrete objects and pictorial representations , including those involving numbers, quantities and measures - Applying their increasing knowledge of mental and written methods.	and subtraction. 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 problems involving addition, subtraction, multiplication and division and combination of these, including understanding the meaning of the equals sign	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

	Number bonds, number line	Number bonds, Add	Column addition	Column addition	Efficient written method	Order of operations
	Add	addition	column subtraction	column subtraction		
	addition	More, plus	exchange	exchange		
	More, plus	Make, sum, total, altogether,	inverse	inverse		
	Make, sum, total, altogether	Equals, is the same as,	equals	equals		
	Commulative	Difference between	is the same as	is the same as		
	Inverse	Subtract, take away, minus				
3	Double, near double	inverse				
	Half, halve					
5	Equals, is the same as					
	(including equals sign)					
	Difference between					
	How many more to make?					
	How many more is that?					
	How much more is?					
	Subtract, take away, minus					
	How many fewer is than?					
	How much less is?					

Vocabulary

Multiplication & Division					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

	Recall and use	Recall and use	Recall multiplication	Identify multiples and	Identify common
	multiplication and	multiplication and	and division facts for	factors, including	factors, common
	division facts for the 2,	division facts for the 3,	multiplication tables up	finding all factor pairs	multiples and prime
Jse	5 and 10 multiplication	4 and 8 multiplication	to 12x12	of a number, and	numbers
t, l	tables, including	tables		common factors of two	
sen	recognising odd and		Use place value, known	numbers	Use estimation to check
res	even numbers		and derived facts to		answers to calculations
Sep			multiply and divide	Know and use the	and determine, in the
Ξ.	Show that		mentally, including:	vocabulary of prime	context of a problem,
Multiplication and Division: Recall, Represent, Use	multiplication of two		multiplying by 0 and 1;	numbers, prime factors	an appropriate degree
Re	numbers can be done in		dividing by 1;	and composite (non-	of accuracy
uo	any order		multiplying together	prime) numbers	,
visi	(commutative) and		three numbers	1	
Div	division of one number			Establish whether a	
nd	by another cannot		Recognise and use	number up to 100 is	
n a	by another cannot		factor pairs and	prime and recall prime	
tio			commutativity in	numbers up to 19	
ica			mental calculations		
ipl				Recognise and use	
Inh				-	
2				square numbers and	
				cube numbers, and the	
				notation for square (²)	
				and cubed (³)	

	Calculate mathematical	Write and calculate	Multiply two-digit and	Multiply numbers up to	Multiply multi-digit
	statements for	mathematical	three-digit numbers by	4 digits by a one- or	numbers up to 4 digits
	multiplication and	statements for	a one-digit number	two-digit number using	by a two-digit whole
	division within the	multiplication and	using formal written	a formal written	number using the
	multiplication tables	division using the	layout	method, including long	formal written method
	and write them using	multiplication tables		multiplication for two-	of long multiplication
	the multiplication (x),	that they know,		digit numbers	
	division (÷) and equals	including for two-digit			Divide numbers up to 4
	(=) signs	numbers times one-		Multiply and divide	digits by a two-digit
		digit numbers, using		numbers mentally	whole number using
suc		mental and progressing		drawing upon known	the formal written
atio		to formal written		facts	method of long
cula		methods.			division, and interpret
Multiplication and Division: Calculations				Divide numbers up to 4	remainders as whole
n: 0				digits by a one-digit	number remainders,
sio				number using the	fractions, or by
ivi				formal written method	rounding, as
d D				of short division and	appropriate for the
an				interpret remainders	context
uo				appropriately for the	
ati				context	Divide numbers up to 4
plic					digits by a two-digit
ulti				Multiply and divide	number using the
ž				whole numbers and	formal written method
				those involving	of short division where
				decimals by 10, 100 and	appropriate,
				1,000	interpreting remainders
					according to the
					context
					Perform mental
					calculations, including
					with mixed operations
					and large numbers

Multiplication and Division: Solve Problems	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 multiplication and division, including scaling by simple fractions and problems involving simple rates	Solve problems involving addition, subtraction, multiplication and division
Multiplication and Division: Combined operations					Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	Use their knowledge of the order of operations to carry out calculations involving the four operations

Odd, even	Odd, even	Product	Multiplication facts (up to	Factor pairs	Order of operations
Count in twos, threes, fives	Count in twos, threes, fives	Multiples of four, eight, fifty	12x12)	Composite numbers, prime	Common factors, common
Count in tens (forwards	Count in tens (forwards	and one hundred	Division facts	number, prime factors,	multiples
from/backwards from)	from/backwards from)	Scale up	Inverse	square number, cubed	Highest common factor
How many times?	How many times?	Divisibility	Derive	number	Lowest common multiple
Lots of groups of	Lots of groups of	Divisible by	Divisibility	Formal written method	
Once, twice, three times, five	Once, twice, three times, five	Exchange	Divisble by	Dividend, divisor, quotient	
times	times	Remainder	Exchange	Multiplicand	
Multiple of, times, multiply,	Multiple of, times, multiply,	Array	Remainder		
multiply by	multiply by	Divide	array		
Repeated addition	Repeated addition	Divided by			
Array, row, column	Array, row, column	Left over			
Double, halve	Double, halve				
Share, share equally	Share, share equally				
Group in pairs, threes, etc.	Group in pairs, threes, etc.				
Equal groups of	Equal groups of				
Divide, divided by, left, left	Divide, divided by, left, left				
over	over				

Vocabulary

Fractions						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

	Recognise, find and	Recognise, find, name	Count up and down in	Count up and down in	Identify, name and	
	name a half as one of	and write fractions 1/3,	tenths; recognise that	hundredths; recognise	write equivalent	
	two equal parts of an	¼, 2/4 and ¾ of a	tenths arise from	that hundredths arise	fractions of a given	
	object, shape or	length, shape, set of	dividing an object into	when dividing an object	fraction, represented	
	quantity	objects or a quantity	10 equal parts and in	by one hundred and	visually, including	
te			dividing one-digit	dividing tenths by ten	tenths and hundredths	
Nri	Recognise, find and		numbers or quantities			
4 M	name a quarter as one		by 10		Recognise mixed	
an	of four equal parts of		-		numbers and improper	
iise	an object, shape or		Recognise, find and		fractions and convert	
ngu	quantity		write fractions of a		from one form to the	
ecc	. ,		discrete set of objects:		other and write	
Fractions: Recognise and Write			unit fractions and non-		mathematical	
suc			unit fractions with small		statements >1 as a	
ctio			denominators		mixed number (for	
Fra			achoninators		example, $2/5 + 4/5 =$	
			Recognise and use		6/5 = 1 1/5)	
			fractions as numbers:		0/5 - 1 1/5/	
			unit fractions and non-			
			unit fractions with small			
		.	denominators			
		Recognise the	Recognise and show,	Recognise and show,	Compare and order	Use common factors to
e		equivalence of 2/4 and	using diagrams,	using diagrams, families	fractions whose	simplify fractions; use
pai		1/2	equivalent fractions	of common equivalent	denominators are all	common multiples to
шo			with small	fractions	multiples of the same	express fractions in the
Ŭ.			denominators		number	same denomination
suc						
ctic			Compare and order unit			Compare and order
Fractions: Compare			fractions, and fractions			fractions, including
			with the same			fractions > 1
			denominators			

Fractions: Calculations		Write simple fractions for example, ½ of 6 = 3	Add and subtract fractions with the same denominator within one whole (for example, 5/7 + 1/7 = 6/7)	Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by	Add and subtract fractions with different denominator and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (for
Frac					materials and diagrams	example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) Divide proper fractions by whole numbers (for example, $\frac{1}{3} \div 2 = \frac{1}{6}$)
Fractions: Solve Problems			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		
Vocabulary	Whole Equal parts, four equal parts One half, two halves A quarter, two quarters	Whole Equal parts, four equal parts One half, two halves A quarter, two quarters Three quarters, one third, a third Equivalence, equivalent	Numerator, denominator Unit fraction, non-unit fraction Compare and order Tenths Equivalence, equivalent Equal parts	Equivalent decimals equivalent fractions	Proper fractions, improper fractions, mixed numbers Percentage Half, quarter, fifth, two, fifths, four fifths Ratio, proportion Equivalent decimals equivalent fractions	Degree of accuracy Simplify Proper fractions, improper fractions, mixed numbers Percentage Ratio, proportion Equivalent decimals equivalent fractions

Decimals					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

and		Recognise and write decimal equivalents of	Read and write decimal numbers as fractions	Identify the value of each digit in numbers
ise		any number of tenths	(for example, 0.71 =	given to three decimal
ngo S		or hundredths	71/100)	places
Decimals: Recognise Write		Recognise and write	Recognise and use	
lls: 		decimal equivalents to	thousandths and relate	
ima		1/4, 1/2. 3/4	them to tenths,	
eci		,	hundredths and	
			decimal equivalents	
		Round decimals with	Round decimals with	
C)		one decimal place to	two decimal places to	
Compare		the nearest whole	the nearest whole	
du d		number	number and to one	
			decimal place	
als:		Compare numbers with		
i		the same number of	Read, write, order and	
Decimals:		decimal places up to	compare numbers with	
		two decimal places	up to three decimal	
			places	

		Find the offerst of	Calua muchiana a	
		Find the effect of	Solve problems	Multiply and divide
		dividing a one- or two-	involving number up to	number by 10, 100 and
		digit number by 10 and	three decimal places	1000 giving answers up
		100, identifying the		to three decimal places
		value of the digits in the		
		answer as ones, tenths		Multiply one-digit
ms		and hundredths		numbers with up to
ole				two decimal places by
ro				whole numbers
<u>р</u>				
an				Use written division
su				methods in cases where
itic				the answer has up to
ula				two decimal places
alc				·
Decimals: Calculations and Problems				Solve problems which
Jal				require answers to be
ci				rounded to specified
De				degrees of accuracy
		Solve simple measure	Recognise the per cent	Associate a fraction
		and money problems	symbol (%) and	with division and
		involving fractions and	understand that per	calculate decimal
es		decimals to tow	cent relates to 'number	fraction equivalents (for
tag		decimal places	of parts per hundred',	example, 0.375) for a
en		decimal places	and write percentages	simple fraction (for
erc			as a fraction with	example, 3/8)
d p			denominator 100, and	example, 576)
an			as a decimal	Recall and use
sle			as a decimal	
<u> </u>			Calva analdana wakiah	equivalences between
Jec			Solve problems which	simple fractions,
Fractions, Decimals and Percentages			require knowing	decimals and
ů o			percentage and decimal	percentages including
Icti			equivalents of 1/2, 1/4,	in different contexts
Era			1/5, 2/5, 4/5 and those	
			fractions with a	
			denominator of a	
			multiple of 10 or 25	

			Ra	tio		
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Ratio and Proportion						Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages (for example, of measures, and such as 15% if 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.

Algebra						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

	Solve one-step	Recognise and use the	Solve problems,		Use simple formulae
	problems that involve	inverse relationship	including missing		·
	addition and	between addition and	number problems		Generate and describe
	subtraction, using	subtraction and use this			linear number
	concrete objects and	to check calculations			sequences
	pictorial	and solve missing			
æ	representation, and	number problems			Express missing number
Algebra	missing number				problems algebraically
lge	problems such as 7 = ? -				
4	9				Find pair of numbers
					that satisfy an equation
					with two unknowns
					Enumerate possibilities
					of combinations of two
					variables
					Linear number sequence
2					Brackets Substitute
ula					Variables
ab					Symbol
Vocabulary					Known values
					Equivalent expression
					Formula

Measure						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

Compare, describe and solve practical problems for: - lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) - mass/weight (for example, heavy/light, heavier than, lighter than) - capacity and volume (for example, full/empty, more than, less than, half, half full, quarter) - time (for	choose and use appropriate standard units to estimate an measure length/height in any direction (m/cm0; mass (kg/g); temperature (°c); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >,< and =	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Covert between different units of measure (for example, kilometre to metre; hour to minute) Estimate, compare and calculate different measures	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa using decimal notation to up to three decimal places Convert between miles
 example, quicker, slower, earlier, later) measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) 				decimal notation, including scaling	and kilometres

Measurement: Using Measures

	Recognise and know the value of different denominations of coins and notes	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Estimate, compare and calculate different measures, including money in pounds and pence	Use all four operations to solve problems involving measure (for example, money)	
Measure: Money		Find different combinations of coins that equal the same amounts of money Solve simple problems				
		in a practical context involving addition and subtraction of money of the same unit, including giving change				

Sequence events in	Compare and sequence	Tell and write the time	Read, write and convert	Solve problems	Use, read, write and
chronological order	intervals of time	from an analogue clock,	time between analogue	involving converting	convert between
using language (for		including using Roman	and digital 12- and 24-	between units of time	standard units,
example, before and	Tell and write the time	numerals from I to XII,	hour clocks		converting
after, next, first, today,	to five minutes	and 12-hour and 24-			measurements of time
yesterday, tomorrow,	including quarter	hour clocks	Solve problems		from a smaller unit of
morning, afternoon and	past/to the hour and		involving converting		measure to a larger
evening)	draw the hands on a	Estimate and read time	from hours to minutes;		unit, and vice versa
	clock face to show	with increasing	minutes to seconds;		
Recognise and use	these times	accuracy to the nearest	years to months; weeks		
language relating to		minute; record and	to days		
dates, including days of	Know the number of	compare time in terms			
the week, weeks,	minutes in an hour and	of seconds, minutes			
months and years	the number of hours in	and hours; use			
	a day	vocabulary such as			
Tell the time to the		o'clock a.m./p.m.,			
hour and half past the		morning, afternoon,			
hour and draw the		noon and midnight			
hands on a clock face to					
show these times		Know the number of			
		seconds in a minute			
		and the number of days			
		in each month, year			
		and leap year			
		Compare durations of			
		events (for example to			
		calculate the time			
		taken by particular			
		events or tasks)			

lume		Measure the perimeter of simple 2-D shapes	Measure and calculate the perimeter of rectilinear figure (including squares) in centimetre and metres Find the area of	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare	Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is
Measurement: Perimeter, Area, Volume			rectilinear shapes by counting squares	the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes	possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate and
Measurem				Estimate volume (for example, using 1cm ³ blocks to build cuboids (including cubes)) and capacity (for example, using water)	compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units (for example, mm ³ and km ³)

Full, half full, empty	Quarter past	Leap year	Convert	Volume	Volume
	-		Convert		
Holds	quarter to	Twelve-hour clock	Capacity	Imperial units, metric units	Imperial units, metric units
Container	Capacity	twenty-four-hour clock	Metre	Rectilinear	Rectilinear
Weigh, weighs, balances	Metre	Roman numerals I to XIII	Kilometre	Compound/composite	Compound/composite
Heavy, heavier, heaviest,	Kilometre	Capacity	Gram	convert	convert
light, lighter, lightest	Gram	Metre	Kilogram		
Scale	Kilogram	Kilometre	Millimetre		
Time	Millilitre	Gram	Litre		
Monday, Tuesday ,	Litre	Kilogram	degrees		
Wednesday, Thursday, Friday	Temperature	Millimetre			
Seasons: spring, summer,	Degrees	Litre			
autumn, winter	Hour	degrees			
Day, week, month, year,	O'clock				
weekend	Half past				
Birthday, holiday	Quarter to				
Morning, afternoon, evening,					
night, midnight					
Bedtime, dinnertime,					
playtime					
Today, yesterday, tomorrow					
Before, after					
Next, last					
Now soon, early. Late					
Quick, quicker, quickest,					
quickly, fast, faster, fastest,					
slow, slower, slowest, slowly					
Old older, oldest, new,					
newer, newest					
Takes longer, takes less time					
Hour, o'clock, half past					
Analogue/digital clock, watch					
hands					
How long ago? How long will					
it be to? how long will it					
take to? How often?					
Always, never, often,					
sometimes, usually					
Once, twice					
First, second, third, fourth,					
fifth, sixth, seventh, eighth,					
ninth, tenth					
Estimate, close to, about the					
same as, just over, just under					
Too many, two few, not					
enough, enough					
Length, width, height, depth					

Long, longer, longest, short,			
shorter, shortest, tall, taller,			
tallest, high, higher, highest			
Low, wide, narrow, deep,			
shallow, thick, thin			
Far, near, close			
Metre, ruler, metre stick			
Money, coin. Penny, pence,			
pound, price, cost, buy sell,			
spend, spent, pay, change			
Dear(er), costs more, costs			
less, cheaper, costs the same			
as			
How much? How many?			
Total			

	Geometry									
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Geometry: 2-D Shapes	Recognise and name common 2-D shapes (for example, rectangles (including squares), circles and triangles)	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Identify 2-D shapes on the surface of 3-D shapes, (for example, a circle on a cylinder and a triangle on a pyramid) Compare and sort common 2-D shapes and everyday objects	Drew 2-D shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Use the properties of rectangles to deduce related facts and find missing lengths and angles	Draw 2-D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes Illustrate and name parts of circles including radius, diameter and circumference and know that the diameter is twice the radius				

Geometry: 3-D Shapes	Recognise and name common 3-D shapes (for example, cuboids (including cubes)m pyramids and spheres)	Recognise and name common 3-D shapes (for example, cuboids (including cubes), pyramids and spheres) Compare and sort common 2-D shapes and everyday objects	Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientation and describe them		Identify 3_D shapes, including cubes and other cuboids from 2-D representations	Recognise, describe and build simple 3-D shapes, including making nets
Geometry: Angles and Lines			Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half- turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater 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 lines of symmetry in 2-D shapes presented in different orientation Complete a simple symmetric figure with respect to a specific line of symmetry	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees Identify: - Angles at a point and one whole turn (total 360°) - Angles at a point on a straight line and ½ a turn (total 180°) - Other multiples of 90°	Find unknown angles in any triangles, quadrilaterals, and regular polygons Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

	Describe position,	Order and arrange	D	escribe position on a	Identify , describe and	Describe positions on
	direction and	combinations of		-D grid as coordinates	represent the position	the full coordinate grid
	movement, including	mathematical objects in		the first quadrant	of a shape following a	(all four quadrants)
Geometry: Position and Direction	whole, half, quarter	patterns and sequences			reflection or	
ect	and three-quarter turns		D	escribe movements	translation, using the	Draw and translate
Di		Use mathematical	be	etween positions and	appropriate languages,	simple shapes on the
P		vocabulary to describe	tr	anslations of a given	and know that the	coordinate plane, and
u a		position, direction and	u	nit to the left/right	shape has not changed	reflect them in the axes
tio		movement, including	ar	nd up/down		
osi		movement in a straight				
× P		line and distinguishing	PI	lot specified points		
etry		between rotation as a	ar	nd draw sides to		
Ĕ		turn and in terms of	cc	omplete a given		
) j		right angles for quarter,	po	olygon		
		half and three-quarter				
		turns (clockwise and				
		anti-clockwise)				

Group, sort	Size	Horizontal, diagonal	Quadrilaterals	Regular and irregular	Vertically opposite (angles)
Cube, cuboid, pyramid,	Bigger, larger smaller	Perpendicular and parallel	Triangles- Right angle,	Polygons	Circumference, radius,
sphere, cone cylinder circle	Symmetrical, line of	lines	scalene, equilateral	Dodecahedron	diameter
(circular), triangle, square	symmetry	Heptagon, hexagon,	Right angle, acute and	Reflex angle	Compasses (pair of)
Shape	Fold match	parallelogram, rhombus,	obtuse angles	Dimensions	Opposite angle
Flat, curved, straight, round	Mirror line, reflection	trapezium	Coordinates	Right angle, acute and	Four quadrants (for
Hollow, solid	Pattern, repeating pattern	Greater less than ninety	Translation	obtuse angles	coordinates)
Corner (point, pointed)	Octagon, kite, pentagon,	degrees	Quadrant	Coordinates	Translation
Face, side, edge	prism	Orientation (same	X-axis	Translation	
Make, build, draw	Rotation	orientation, different	Y-axis	Quadrant	
Position	Clockwise, anticlockwise	orientation)	Perimeter and area	X-axis	
Over, under, underneath,	Straight line			Y-axis	
above, below, top, bottom,	Ninety degree turn, right			Perimeter and area	
side	angle				
On, in, outside, inside	Left				
Around, in front, behind	right				
Front, back					
Before, after					
Beside, next to, opposite					
Apart					
Between, middle, edge,					
Centre					
Corner					
Direction					
Journey					
Left, right, up, down,					
forwards, backwards,					
sideways					
Across					
Close, far, near					
Along, through					
To, from, towards, away					
from					
Movement					
Slide, roll, turn, whole turn,					
half turn					
Stretch, bend					

Statistics								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			

73	Interpret and construct	Interpret and present	Interpret and present	Complete, read and	Interpret and construct
and et	simple pictograms, tally	data using bar charts,	discrete and continuous	interpret information in	pie charts and line
sti nt rpr	charts, block diagrams	pictograms and tables	data using appropriate	tables, including	graphs and use these to
Statistics: Present and Interpret	and simple tables		graphical methods,	timetables	solve problems
Pre St			including bar charts and		
			time graph		
	Ask and answer simple	Solve one-step and	Solve comparison, sum	Solve comparison, sum	Calculate and interpret
S	questions by counting	two-step questions (for	and difference	and difference	the mean as an average
ler	the number of objects	example, 'How many	problems using	problems using	
do	in each category and	more?' and 'How many	information presented	information presented	
Statistics: Solve Problems	sorting the categories	, fewer?') using	in bar charts,	in a line graph	
	by quantity	information presented	pictograms, table and	5 1	
Sc	, , ,	in scaled bar charts and	other graphs		
tics	Ask and answer	pictograms and tables	0.		
tist	questions about				
Sta	totalling and comparing				
	categorical data				
	Interpret and construct	Interpret and present	Interpret and present		
t g	simple pictograms, tally	data using bar charts,	discrete and continuous		
tic: ta	charts, block diagrams	pictograms and tables	data using appropriate		
Statistics: Present and Interpret	and simple tables		graphical methods,		
Sta res Int			including bar charts and		
–			time graph		
	Count, tally, sort	Chart, bar chart, frequency	Continuous data	Continuous data	Mean
	Vote	table, Carroll diagram, Venn	Line graph	Line graph	Average
	Graph, block graph,	diagram	frequency table, Carroll	frequency table, Carroll	Pie chart
2	pictogram	Axis, axes	diagram, Venn diagram	diagram, Venn diagram	Construct
ula	Represent Group, set, list, table	diagram	Axis, axes diagram	Axis, axes diagram	Line graph Axis
abı	Label, title		ulagrafii	ulagraffi	Axes
Vocabulary	Most popular, most				diagram
	common, least popular, least				-
	common				
	Carrol diagram				
	Venn diagram				

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
 Listen, join in	Predict	Predict	Predict	Predict	Predict
Say, thing, imagine,	Describe the pattern,				
remember	describe the rule				
Start from, start with, start at	Find, find all, find different				
Look at, point to	Investigate	Investigate	Investigate	Investigate	Investigate
Put, place, fit	Describe	Describe	Describe	Describe	Describe
Arrange, rearrange	Explain	Explain	Explain	Explain	Explain
Change, change over	Record	Record	Record	Record	Record
Split, separate	Work out				
Carry on, continue, repeat					
and what comes next?					
Find, choose, collect, use,					
make, build					
Tell me, describe, pick out,					
talk about, explain, show me					
Read, write, record, trace,					
copy, complete, finish, end					
Fill in, shade, colour, tick,					
cross, draw, draw a line					
between, join (up), ring,					
arrow					
Cost					
Count, work out, answer,					
check same					
number(s)/different					
number(s)/missing					
number(s)					
Number facts, number line,					
number track, number					
square, number cards					
Abacus, counters, cubes,					
blocks, rods, die, dice,					
dominoes, pegs, peg board					
Same way, different way,					
best way, another way					
In order, in a different order					
Not all, every, each					