	Place Value						
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 read and write numbers from 1 to 20 in numerals and words	Represent numbers to 100 Tens and ones with a part whole model Tens and ones using addition	Use a place value chart Represent numbers to 1,000 100s, 10s and 1s (1) 100s, 10s and 1s (2) Number line to 1,000	1,000s, 100s, 10s and 1s Partitioning Number line to 10,000	Number to 100,000 Numbers to a million			
count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s	Count in 2s, 5s and 10s Count in 3s	Count from 0 in multiples of 4, 8, 50 and 100	Count in multiples of 6, 7, 9, 25 and 1,000	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.			
given a number, identify 1 more and 1 less	Fin ten more or less than a given number	Find 1, 10, 100 more or less than a given number	1,000 more or less				
identify and represent numbers using objects and pictorial representations including the number line, and 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	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		
			Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000	Round any number up 1,000,000 to the nearest 10, 100, 1000, 10,000 and 10,000	Round any whole number to a required degree of accuracy		
			Roman Numerals to 100	Read Roman Numerals to 1,000 (M) and recognise years written in Roman			

		Numerals.	
	Count backwards through	Interpret negative	Use negative numbers in
	zero	numbers in	context and calculate
	to include negative	context, count forwards	intervals across zero.
	numbers.	and	
		backwards with positive	
		and	
		negative whole numbers	
		including	
		through zero.	

Addition and Subtraction							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Read, write and	Recall and use addition	Mental addition of	Addition of	With more than			
interpret maths	and subtraction facts to	3-digit number + 1, +10,	4-digit number + 1, +10,	4-digits			
statements + - = signs	20. Use related facts to a 100	+100	+100,				
Represent and use number bonds and related subtraction facts within 20	Solve problems with addition and subtraction. Use concrete resources, written and mental methods.	Formal written method	Formal written methods	Formal written methods			
Add and subtract 2 and 2 digit numbers to 20	Add and subtract: 2 digit &ones 2 digit & tens Two 2 digit nos Adding three 1 digit nos Addition any order. Subtraction cannot- use to check calculations and missing numbers	Estimating answers using inverse calcs	Estimating answers using inverse calcs	Estimating and rounding			

Multiplication and Divsion							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Recall and use M & D	Recall and use M facts	M facts up to 12x12	Factor pairs	M-ing		
	facts 2,5,10	for 3, 4 and 8		Multiples	D-ing up to 4-digit by 2-		
				Common factors of two	digit		
				numbers			
		M 2-digit x 1-digit	Using place value facts	Prime numbers	Mental calc inc mixed		
		Formal written methods	to x by 0 and 1	Prime factors	operations		
				Composite numbers			
		Solve missing number	Multiplying three	M 4-digit x 1-digit and 2-	Common factors,		
		problems	numbers together	digit numbers	common multiples and		
				Formal written methods	prime numbers		
	Calculate M and D using		Recognise factor pairs	M and D numbers	Order of operations inc		
	x -=		(Guzintas)	mentally using known	brackets		
			And commutativity	facts			
Solve problems using M	Solve problems using M		M 2-digit and 3-digit by	D 4-digit by 1-digit	Use estimation to check		
and D -concrete	and D –concrete		a 1-digit number	Formal written methods	answers – determine		
resources, repeated	resources, repeated		Including use of the	Interpret remainders	appropriate accuracy		
addition, arrays. With	addition, arrays		distributive law				
support							
				M and D whole numbers			
				and decimals by 10, 100			
				and 1000			
				Square and cube			
				numbers + notation			

Fractions, decimals, percentages, ratio and proportion						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
½ as two equal parts	1/3, 1/4, 2/4 and 3/4 of as	Calculate 'small'	Calculate with harder	Compare and order	including fractions > 1	
¼ as four equal parts of	lengths, shape, quantity	fractions of amounts	fractions of amounts	fractions	Simplify fractions using	
as shape, quantity	Calculate ½ of 6 and	Count in tenths	Count up and down in	Equivalent fractions of a	common factors	
	recognise 2/4 = ½	See fractions as	hundredths	given fraction including	Add and subtract	
		numbers (number line?)	1/10ths ÷ 10 = 1/100ths	1/10ths and 1/100ths	fractions with different	
		Recognise equivalence	Families of equivalent	Add and subtract	denominators including	
		of small fractions	fractions and (later)	fractions with same	'mixed' numbers	
		Add fraction with a	decimals	denominator and where	Multiply and divide	
		common denominator	Add and subtract	numerator>denominator	numbers by 10, 100,	
		Compare and order unit	fractions with same	Recognise 0.71 = 7/100	1000 and give answers	
		fractions	denominator	and develop decimal	to 3-dps	
			Recognise decimal	equivalents to 1/1000ths	Divide fractions by	
			equivalents of 1/10ths	Round numbers with 2-	whole numbers	
			and 1/100ths	dps to nearest whole	Multiply fractions	
			Divide 1-digit and 2-digit	number and to 1dp	Connect fractions with	
			numbers by 1/10ths and	Compare numbers to 3-	division and convert	
			1/100ths	dps.	fractions to decimals	
			Round decimals with 1-	Multiply fractions by	and v-versa	
			dp to nearest whole	whole numbers	Multiply numbers up to	
			number	$e.g.(2/5 \times 3 = 6/5)$	2-dps by whole numbers	
			Compare numbers to 2-	Recognise the % symbol	Know equivalences	
			dps	and write percentages as	between F,D,Ps(%)	
			Measures and money	fractions and decimals		
			problems with fractions	Solve percentage		
			and up to decimals to 2-	problems involving		
			dps	halves, quarters and		
				fifths		

Measurement						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Comparing/describing	Use standard units	Measure perimeter of	Convert between	Convert between	Ditto, using decimal	
Lengths: long/short,	(m/cm, kg/g, l/ml	simple 2D shapes	different units of	km→m, m→cm,	notation up to 3-dps	
tall/short, double/half	Use symbols (£, p) to	Compare, add and	measure e.g.	cm→mm, g→kg and		
Weights: heavy/light	combine amounts	subtract lengths, money	km to m	l→ml		
Volume: full/empty, half	Addition and	Tell time (analogue)	hours to minutes			
full, quarter	subtraction of money	with Roman numerals	Measure and calculate	Equivalences between	Miles to km (1 to 1.6)	
Time: quicker/slower,	Compare and order	also using 12 and 24	perimeters of rectangles	inches/cm, lbs/kg,	and vice-versa (1km to	
earlier/later	lengths, mass, volume	hour clocks	in cm and m and count	pints/litres	0.625 miles)	
Measure and record	using <, >, =	Estimate and read time	squares to find area	Ditto + units of area cm ² ,	Recognise shapes with	
L/H, M/W, C/V,	Compare and sequence	to nearest minute; use	Estimate and compare	m ²	the same areas can have	
H/M/Secs	time. Tell time to 5 mins	vocab of am/pm, noon,	money in £ and p	Estimate areas on non-	different perimeters and	
Know about coins and	inc 1/4 past and 1/4 to	etc		rectilinear shapes	measurements	
notes	Know number of	Know 60 secs in 1		Estimate volume in cm ³		
Sequence events	minutes in an hour and	minute and days in each		Convert between units		
(before/after,	hours in a day	month		of time	Use formulae for area	
today/tomorrow etc)		Compare duration of		Use: +, -, x and ÷ to solve	and volume of cuboids	
Develop language of		events		problems of various		
time: D/W/M/Years				measures involving	Calculate areas of	
Show time to hour and				decimals	parallelograms and	
half hour					triangles	

Geometry- properties of Shapes						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Recognise and name common 2-D and 3-D shapes	Describe 2-D shapes (number of sides, line symmetry Describe 3-D shapes (edges vertices and faces)	Draw 2-D and make 3-D shapes		Identify 3-D shapes from a 2-D representation	Draw 2-D shapes with given dimensions and angles Build 3-D shapes and make nets	
	Identify 2-D shapes on 3-D shapes (e.g. circles on a cylinder		Compare and classify quadrilaterals and triangles	Distinguish between regular and irregular polygons (= sides and = angles)	Compare and classify and find unknown angles in Ts, Qs and regular polygons.	
	Compare and sort 2-D and 3-D shapes		Identify lines of symmetry in 2-D shapes Complete symmetric shapes with a given line of symmetry			
					Name parts of a circle inc r, d, C and that d = 2r	

Geometry- position and movement							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Describe position, direction and movement inc. Whole ½. ¼ and ¾ turns	Ditto + describing turns as rotation through right angles inc clockwise and anticlockwise Order and arrange objects in patterns and sequences	Recognise angle as a description of turn Identify angles as < or > than a right angle Identify H and V lines + perpendicular and parallel lines	Describe position of a shape using co-ords. Plot points and complete a polygon Translation of simple shapes	Know angles are measured in degrees, draw and measure angles estimate and compare acute, obtuse and reflex Whole turn = 360° etc Find missing angles in 2-D shapes Draw a shape one it has been reflected on a grid	Know about angles on a straight line and vertically opposite angles Find missing angles in 2-D shapes		

Statistics							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Draw and interpret pictograms, tally charts, block diagrams and tables	Ditto + bar charts	Ditto with discrete data (e.g. counting objects) and continuous data (e.g. measuring time, length etc)	Read and interpret timetables			
	Count and sort objects	Solve one-step and two- step questions using information from bar charts, pictograms and tables	Compare, sum and difference problems using info in bar charts, pictograms, tables and graphs	Ditto but using line graphs	Construct and interpret pie charts and line graphs to solve problems Calculate and interpret the mean average		

