Gwinear School Non-Negotiables

Mathematics skills should be taught when linked to projects where possible to ensure real world application.





Key Skills

To be able to solve problems using a range of strategies.

To reason mathematically, following a line of

enquiry.

Mathematical language and targets

	CLASS ONE	CLASS TWO		CLASS	THREE	CLASS FOUR	
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and Place for value) value) vi giv co nu nu mi 10 giv 1 r Ide nu an rep inc lin lar mc (fe	nunt to and across 100, rwards and acckwards, beginning ith 0 or 1, or from any ven number. The punt, read and write imbers to 100 in imerals; count in ultiples of 2s, 5s and los ven a number, identify more and 1 less. The punt, read and write imbers with incomplete incomp	Count in steps of 2, 3 and 5 from zero and in tens from any number. Recognise the place value of any 2 digit number. Identify numbers and answers on a number line. Compare and order numbers from 0 up to 100 and use <> and = signs	Count in multiples of 4, 8, 50 and find 100 more of less than a given number. Recognise the value of each digit in 3 digit numbers. Compare and order numbers to 1000. Read and write numbers up to 1000 in numbers and words. Solve a range of practical number problems.	Count in multiples of 6,7.9 and 1000. Find 1000 more or less that a given number. Recognise the place value of 4 digit numbers. Order and compare numbers beyond 1000. Round numbers to the nearest 10, 100 or 1000. Read roman numerals to numerals to 100. Know how to solve	Read, write an order numbers to 1, 000,000 and know the value of each digit. Count forwards and backward sin steps of 10 up to 1,000,000. Interpret negative numbers, counting forwards and backwards in steps of 10. Round up to the nearest number including some decimals. Read roman numerals to 1000 (M) and recognise years	Read, write and order numbers to 10, 000,000 and know the value of each digit. Round any whole number accurately and to whole decimal places. dentify prime numbers and know how to calculate them. Use negative numbers in context, and calculate across zero.	Understand place value for decimals, measures and integers of any size. Order positive and negative integers, decimals and fractions Know prime numbers, square number factors, multiples and prime factorisation. Understand how to round numbers be estimating and then checking answer (round to decimal places, or a percentage)

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Number (Addition and subtraction)		problems with addition and		Add and subtract up to 4 digit numbers. Use a range of methods to calculate including column	Add and subtract whole numbers with more than 4 digits sing column addition and subtraction.	Solve problems involving addition and subtraction. Perform mental calculations quickly.	Use addition and subtraction confidently (decimals, fractions, integers, positive and negative numbers)
	Represent and use	and subtraction	numbers and tens and hundreds.	addition.	Add and subtract large increasingly large numbers	Know how to solve multi	Use a range of strategies confidently and independently.
	related subtraction facts within 20	Recall and use	Confidently use column addition to add and subtract.	Estimate answers and use inverse operations confidently.	mentally. Add and subtract when solving multi-step problems	step problems in a range of contexts. Use estimation to check the	Add and subtract using missing numbers or parts of calculations.
	digit and two-digit numbers to 20,	fluently. Add and subtract two digit numbers	Estimate the answers to calculations. Know that adding is	Solve a range of calculations, choosing the correct operation.	and explain methods.	answers to calculations.	
	that involve addition and subtraction, using	then units. Recognise that	the inverse of subtraction.				
	pictorial	adding is the inverse of subtraction.					

pictorial representations and arrays with the support of the teacher williplication and division using x / and = Solve simple missing number problems. Number (Fractions and decimals) Number (Fractions and decimals) Number (recognise, find and name them and arrays of an object, shape or quantity Represent key recognise, find and name a quarter as 1 of 4 shape, set of objects fractions and hame a quarter as 1 of 4 shape, set of objects fractions and hame a quarter as 1 of 4 shape, set of objects fractions and decimals) Nitro and calculate mental calculations, and arrays with the support of the teacher will plication and division using x / and = Write and calculate mental calculations, using multiplication and division. Number (Fractions and decimals) Number (Fractions and name a quarter as 1 of 4 shape, set of objects fractions and hame a quarter as 1 of 4 shape, set of objects fractions and know who was a quarter as 1 of 4 shape, set of objects fractions and know who was a quarter as 1 of 4 shape, set of objects fractions and know who was a quarter as 1 of 4 shape, set of objects fractions and know who was a quarter as 1 of 4 shape, set of objects fractions and know who was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and know was a quarter as 1 of 4 shape, set of objects fractions and kno	i e possible	e to ens	ure real world app	nication.					
and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher using mutiplication and division using x/ and sition using x/ and sition using x/ and sition using x/ and sition using x/ and a calculate mental calculations using mutiplication and division using x/ and sition using mutiplication. Number (Fractions and decimals) Number (eractions and decimals) Number (eractions and aname a half as 1 of 2 equal parts of an object, shape or quantity) Number (eractions and name a quarter as 1 of 4 equal parts of an object, shape or quantity) Number (eractions and name a quarter as 1 of 4) Recognise sind and name a quarter as 1 of 4 equal parts of an object, shape or quantity Now the sind small fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and each of the decimal some equivalent fractions. Begin to recognise fractions and mee apparts of an object, shape or quantity Add and subtract fractions and manue a parts of an object, shape or quantity Add and subtract fractions and manue a guarter as 2 of 4 equal parts of an object, shape or quantity Add and subtract fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fractions and find values e.g. 1/6 of 6 = 3 Begin to recognise fra	Num	mber	Solve one-step problems	Recall multiplication	Recall multiplication	Recall multiplication facts to	Identify multiples and	Multiply up to 4 digit	Use multiplication and division
actualting the answer using concrete objects, pictorial representations and arrays with the support of the teacher with the support of the teacher of division by using arrays, repeated addition, mental methods and problems solving. Number (Fractions and decimals) Number (recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity vecognise, find and name a quarter as 1 of 4 hape, set of objects what he equal parts of an object, shape or quantity. Number (recognise, find and name a quarter as 1 of 4 hape, set of objects which is made of ten equal parts of an object, shape or quantity. Number (recognise, find and name a quarter as 1 of 5 and name them easily. Divide up to 4 digit numbers and composite numbers and unterpret as whole unumbers. Obivide up to 4 digit numbers including the inverse. Add and subtract fractions and division. Solve simple missing numbers. Solve word problems involving multiplying and dividing. Count up and down in tenths and know that aequivalent fractions. which is made of ten equal parts. Count up and down in hundredths and tenths. Add and subtract fractions with the same decimals and problem show and problems and find values e.g. 1/6 of 6 a segin to recognise genit or recognise genit or recognise fractions and find values e.g. 1/6 of 6 a segin to recognise some equivalent fractions. Recognise and show to 2. Count up and down in hundredths and tenths. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract fractions by whole numbers. Count up and down in hundredths and tenths. Add and subtract	(Multiplica	cation and	involving multiplication	facts for the 2,5 and	and division facts for	12x12.	common factors of numbers.	number using a range of	confidently (decimals, fractions,
using concrete objects, pictorial representations and arrays with the support of the teacher support of the teach	divisi	sion)	and division, by	10 times tables	the 3, 4 and 8 times			methods including long	integers, positive and negative
Dictorial representations and arrays with the support of the teacher and arrays with the support of the teacher			calculating the answer	including odd and	tables.	Use place value to multiply	Know the vocabulary of prime	multiplication.	numbers)
and arrays with the support of the teacher support of the following multiplying and dividing. Number (Fractions and float support of the teacher support of t			using concrete objects,	even numbers.		and divide mentally.	numbers and composite		Know relationships between numbers
support of the teacher and division using x / and a division using x / and elemental modes and division using x / and elemental modes and problems. Number (Fractions and decimals) Number (Fractions and decimals) Number (Fractions and mame a half as 1 of 2 equal parts of an object, shape or quantity Negroes in the teacher of the te			pictorial representations		Write and calculate		numbers (non-prime)	Divide up to 4 digit numbers	including the inverse.
division using x / and a division. Count up and down in a problem saily. shape or quantity. shape or quantity shape or quan			and arrays with the	Calculate simple	mental calculations	Recognise and use factor	Calculate prime numbers up	and interpret as whole	
Number (Fractions and decimals) Number (gracginise, find and name a half as 1 of 2 equal parts of an object, shape or quantity recognise, find and name a quarter as 1 of a hame a half actors. Recognise and show that a quarter fractions and find and and and tenths. Count up and down in hundredths and tenths.			support of the teacher	multiplication and	using multiplication	pairs.	to 100 and recall prime	numbers.	Understand how to calculate the squar
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using arrays, repeated addition, mental methods and problem solving. Number (Fractions and decimals) Number (Fractions and decimals) Number (recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity Nepresent key recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity Number (recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity Number (Fractions and decimals) Number (Fractions and decimals) Number (recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity Number (Fractions and name a half as 1 of 2 equal parts of an object, shape or quantity Number (Fractions and name them easily. Number (recognise, find and name a quarter as 1 of 4 equal parts. Number (Fractions and name them easily. Number (recognise, find and name a quarter as 1 of 4 equal parts. Number (recognise, find and name a quarter as 1 of 4 equal parts. Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a nalf as 1 of 2 equal parts of an object, shape or quantity Number (recognise, find and name a name and fractions of a length, name and fractions. Number (recognise and storts) Number (recognise and storts) Number (recognise and storts) Number (recognise and storts) Number (recognise and order fractions of a length, name and and subtract fractions with the same decimal an					Solve simple missing	methods.	Recognise square and cube	division.	Use mathematical knowledge to explai
Number (Fractions and decimals) Number (Fractions and decimals) Problem solving.				Show division by	number problems.		numbers and know how to		and reason effectively.
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rractions. reactions with the linearest decimal place or							numbers as tractions.	whole numbers.	
the state of the s				rractions.			Bernald destruction of the	Cala tata faratta a	
same denominator. Whole number. Round decimals to the Calculate fractions,						whole number.		· ·	
E.g. ¼ + ¼ = nearest whole number. decimals and percentages					E.g. 74 + 74 =	C			
Compare and order and know equivalences.	1				Compare and order	· '		and know equivalences.	
Compare and order decimals with up to two Read, write and order key fractions with the decimal places. numbers with up to three Round all of the above to	1							Pound all of the above to	
same denominators. decimal places. frumbers with up to three Round all of the above to	1				, ·	•	'		
Solve simple measures i.e. pecimal places. the nearest whole number production of the nearest whole number productions are simple measures i.e. productions and the nearest whole number productions are simple measures i.e. productions					same denominators.		· •		
Solve problems money problems involving Write percentages as					Salva problems			or decimal place.	
involving all of the up to two decimal places. decimals and fractions.	1					, ,			
above.					-	up to two decimal places.	decimais and mactions.		
Solve problems by converting	1				above.		Solve problems by converting		
fractions to decimals.	1								
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	Measurement/	recognise and name	Choose and use	Measure, compare,	Convert between different	To convert between different		Calculate problems involving perimeter
	Geometry	common 2-D and 3-D	appropriate unites to	add and subtract	units of measure (e.g.	units of measure eg kilometer	the converting	and area (simple and more complex
		shapes, including:	measure and	lengths (m/cm/mm),	Kilometre to metre, hour to	and metre.	measurements.	shapes including circles and some
		2-D shapes [for	estimate length/	mass (kg/g) and	minute)			volume)
		example, rectangles	height (m/cm)	volume/capacity (I/ml)		Understand and know	Convert between standard	
		(including squares),			Measure and calculate the	conversions between metric	units and metric including;	To interpret line scale drawings.
		circles and triangles]	Compare and order	Measure the	area of squares and	and imperial measurements.	length mass, volume and	
		3-D shapes [for	lengths, mass and	perimeter of simple 2D	rectangles		time.	Use a ruler and compass constructions
		example, cuboids	volume/capacity.	shapes.	_	Measure and calculate the		to construct shapes.
		(including cubes),	, , ,		Know how to represent	perimeter of simple shapes in	Convert between miles and	·
		pyramids and spheres]	Recognise and use £	Add simple amounts of	area by using cm2.	centimetres and metres.	kilometers.	Draw points, lines, parallel and
				money to give change.	, ,			perpendicular lines, angles from a given
		describe position,	a value.	Using both £ and p.	Find the area of shapes by	Calculate and compare the	Recognise that shapes have	point.
		direction and			counting squares.		the same area but different	
		movement, including	Find different	Tell and write the time	0 ,	,	perimeters.	Draw translations, rotations and
		, ,	combinations of	in an analogue clock	Estimate, compare and	Estimate volume and capacity		reflections of shapes confidently.
		three-quarter turns		including telling the	calculate different		Begin to calculate the	
		4		time using roman	measures including pounds		volume of simple shapes	Calculate angles, missing angles and
				numerals, and 12 and	and pence.	,	and calculate compare and	know the degrees of a shape.
			,.	24 hour clocks.			estimate the volume of	
			Solve simple	Li iliour ciocio.	Compare and classify	converting units of time.	cubes and cuboids.	Solve problems involving the properties
			·	Estimate time with	geometric shapes including;			of shapes.
			,	accuracy to the	quadrilaterals and triangles,	Solve a range of problems	Calculate the area of	or snapes.
			_	nearest minute, hour,	based on proportions and		parallelograms and	
				am, pm.	sizes.		triangles.	
			Compare and	u, p	5.205.	money.	e. ia. ig.esi	
			•	Understand midnight	Know about simple lines of		Draw 2D shapes using	
			and 24 hour)	and midday.	symmetry and create own	Identify 3D shapes including	simple angles.	
					shapes to show this.	cubes and cuboids from 2D		
			Tell and write time	Know the number of	shapes to show this.		Build simple 3D shapes	
				seconds in a minute		•	including nets.	
				and minutes in an	Describe positions on a grid		morading metal	
				hour.	in the first quadrant.		Find missing angles in a	
			Know the number of	iloui.	in the mot quadrunt.	compare ungle sizes.	range of shapes.	
				Know the number of	Describe movements	Draw given angle accurately	ange of shapes.	
				days in each month	between positions and	S. G. Siveri drigic decarately	Illustrate and name parts of	
				and year and leap	translations.	Know angle son a point,	circles including radius,	
			Identify the	year.		, ,	diameter and	
			properties of 2D	,	Plot points to draw given		circumference.	
				Draw 2D and some 3D	shapes including polygons.			
				shapes.	shapes including polygons.		Calculate the averages of	
			shapes (edges,	J. apcs.			charts, including mean,	
				Identify right angles			median and mode.	
				and know they are 90			ca.a.i uliu iliouc.	
			Compare and sort 2D	,				
			and 3D shapes.	исьтесь.				
			and 3D snapes.	Identify horizontal and				
L		1	1	rachtry nonzontal and	l .	I		

possible to chis	ure real world ap	٠,					T
		Identify 2D shapes	vertical lines.				
		on the surface of 3D					
		shapes.					
		'					
Probability, ratio	N/A	N/A	N/A	N/A	· · · · · · · · · · · · · · · · · · ·		Record frequency of outcomes and
and proportion						proportion which include	derive simple probability.
						missing numbers.	
							Understand that probabilities of all
						Solve problems which	possible outcomes sum to 1.
						include the calculation of	
							Organise data using diagrams, tables
							and grids.
							and grius.
						Solve problems using	
						unequal amounts using	
						knowledge of fractions and	
						percentages.	
Statistics	N/A	Interpret and	Interpret bar charts,	Present data in a clear and	Complete read and interpret	N/A	Represent statistics using graphs,
		construct simple	pictograms and tables.	concise way.	information in a range of		grouped data and measures such as
		pictograms, block		_	tables, including timetables.		mean median and mode.
		, ,	Solve one and two	Know how to construct bar			
		,			Show comparisons, sum and		Construct and interpret; pie charts,
			questions such as how	charts and time graphs.	difference problems using		diagrams, frequency tables and bar
				Calua anabiana bu taliina			
		· ·	· '	, , ,	information presented in a		charts.
		questions by			line.		
		counting the number		charts, pictograms, tables			Know the relationships between the
		of objects in each	understanding of	and other graphs.			variables when interpreting data.
		quantity.	scales in charts.				
		Ask and answer					
		questions about					
		totaling data.					
tl		totalling uata.	L	l	1		L

Algebra	N/A	N/A	N/A	N/A	N/A	To use simple formulae in	Understand how to interpret simple
						algebra	algebraic notation. (See curriculum for
							more detail)
						To generate and describe	
						linear number sequences.	Substitute numerical value and
							calculate simple formulas.
						To express missing number	
						problems.	Work with co-ordinates in all four
							quadrants.
						Find pairs of numbers that	
						satisfy an equation.	Understand simple calculations and find
							numerical values.
						Find possibilities of two	
						calculations.	
						l .	