Maths	EYFS	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 multiples of 2 5 and 10s	Count in steps of 2,3 and 5 from 0, and in 10s from and 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 through zero	
Place Value: represent		Identify and represent numbers using objects and pictorial representations. Read and write numbers to 100 in numerals Read any write numbers from 1 to 20 in words and numerals	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 words	identify, represent and estimate numbers using different representations 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. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Read, write (order and compare) numbers to at least 10,000,000 and determine the value of each digit.
Place Value: Use PV and compare.		Given a number, identify 1 more and 1 less.	Recognise the place value of each digit in a two digit number (tens and ones)	Recognise the place value of each digit in a three digit number (hundreds, tens and ones)	Find 1000 more or less than a given number. Recognise the place value of each digit in a four	(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 to at least 10,000,000 and determine the value of each digit.

Place value: Problems and rounding		Compare and order numbers from 0 up to 100; use <> and = signs Use place value and number facts to solve problems	Compare and order numbers up to 1000 Solve number problems and practical problems involving these ideas	digit number (thousands, hundreds, tens and ones) Compare and order numbers beyond 1000 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above 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	Round any whole number to a requires degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number problems that involve all of the
					that involve all of the above	above.
		Addition and	subtraction			
Addition and subtraction: Recall, represent, Use	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Represent ant use number bonds and related	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Show that addition of two numbers can be done in any order	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	

	·	subtraction facts	(Commutative)				
		within 20					
		within 20	and 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		add and subtract	add and subtract	add and subtract	add and subtract	add and subtract	perform mental
Subtraction:		one digit and two	numbers using	numbers mentally	numbers with up	whole numbers	calculations,
Calculations		digit numbers to	concrete objects	including:	to four digits using	with more than 4	including with
		20, including zero	pictorial	a 3 digit number	formal written	digits including	mixed operations
			representations	and ones	methods of	using formal	and large numbers
			and mentally	a 3 digit number	columnar addition	written methods	J
			including:	and 10s	an subtraction	(columnar addition	use their
			a two digit number	a three digit	where	and subtraction)	knowledge of the
			and ones	number and	appropriate.		order of
			a two digit number	hundreds.	арргорпасс.	Add and subtract	operations to carry
			and 10s	Hariarcas.		numbers mentally	out calculations
			two 2 digit	Add and subtract		with increasingly	involving the four
			numbers	numbers with up		large numbers	operations.
			adding three one	to three digits		large numbers	operations.
			digit numbers	using formal			
			uigit iiuiiibeis	written methods			
				of columnar			
				addition and			
۸ ما ما نه نام می می می ما		and an anti-	aali ia muali la iia	subtraction			
Addition and		solve one step	solve problems	solve problems,	solve addition and	solve addition and	solve addition and
Subtraction:		problems that	with addition and	including missing	subtraction two	subtraction multi	subtraction multi
Solving Problems		involve addition	subtraction:	number problems,	step problems in	step problems in	step problems in
		and subtraction,		using number	contexts, deciding	contexts, deciding	contexts, deciding

Widths Frogression of Skins (Based on Wint	using concrete objects and pictorial representations and missing number problems such as $7 = \ 9$	using concrete objects and pictorial representations, including those involving numbers quantities and measures applying their increasing knowledge of mental and written methods	facts, place value and more complex addition and subtraction	which operations and methods to use and why.	which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign	which operations and methods to use and why
			n and Division			_
Multiplication and Division: Recall, Represent, Use		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	recall and use multiplication and division facts for the three four and eight multiplication tables	recall multiplication and division facts for multiplication tables up to 12 x 12 use place value known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers recognise and use factor pairs and commutativity	identify multiples and factors including finding all factor pairs of a number and common factors of 2 numbers know and use vocabulary of prime numbers, prime factors and composite(non prime) 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 estimation to check to answers to calculations and determine, in the context of a problem. an appropriate degree of accuracy.

Wattis i Togicssion of						
				mental	recognise and use	
				calculations	square numbers	
					and cube numbers	
					the notation for	
					squared and	
					cubed.	
Mulitplication and		calculate	Writet and	multiply two digit	multiply numbers	multiply multi digit
Division:		mathematical	calculate	and three digit	up to four digits by	numbers up to
calculation		statements for	mathematical	numbers by a one	a one or two digit	four digits by a
		multiplication and	statements for	digit number using	number using a	two digit whole
		division within	multiplication and	formal written	formal written	number using the
		multiplication	division using the	layout	method including	formal written
		tables and write	multiplication	,	long multiplication	method of long
		them using the	tables that they		for two digit	multiplication
		multiplication	know, including		numbers	marcipileación
		division and equals	for two digit		Humbers	divide numbers up
		-	numbers times		multiply and	to four digits by a
		signs			divide numbers	_ ,
			one digit numbers,			two digit whole
			using mental and		mentally drawing	number using the
			progressing to		upon known facts	formal written
			formal written			method of long
			methods		divide numbers up	division and
					to four digits by a	interpret
					one digit number	remainders as
					using formal	whole number
					written method of	remainders,
					short division and	fractions or by
					interpret	rounding as
					remainders	appropriate for
					appropriately for	the context
					the context	
						divide numbers up
					multiply and	to four digits by a
					divide whole	two digit number
					numbers and	using the formal
					those involving	written method of
					chose myorving	short division
						SHULL UIVISIUII

					decimals by 10,100 and 1000	where appropriate, 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 2 digit numbers by 1 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 fraction 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	use their knowledge of the order of operations to carry out calculations involving the four operations

<u> </u>	Skills (based off write hose waters)				understanding the meaning of the equals sign	
		Fractions, Decin	nals, Percentages			
Fractions: Recognise and Write	recognise find and name a half as one of two equal parts of an object shape or quantity recognise find an name a quarter as one of four equal parts of an object shape or quantity	recognise find	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers in or quantity's by 10 recognise find and write fractions of a discrete set of objects: unit fractions and non unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non unit fractions with small services and non unit fractions with small services with small	count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10	identify name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements>1 as mixed number for example	
Fractions: Compare		recognise the equivalence of 2/4 and 1/2	denominators recognise an show using diagrams, equivalent	recognise an show using diagrams, families of	compare and order fractions whose	use common factors to simplify fractions; ballsuse
			fractions with small denominators	common equivalent fractions	denominators are all multiples of the same number	common multiples to express fractions in the

iviation regression of	-,		compare and			same
			order unit			denomination
			fractions, and			nomination
			fractions with the			Hommation
			same			fractions
			denominators			compare and
			denominators			under order
						fractions, including
						fractions>1
Fractions:		Write simple	add and subtract			
Calculations		fractions	fractions with the			
		for example	same denominator			
		$\frac{1}{2}$ of 6 = 3	within one whole			
			for example			
			5/7 +1/7 = 6/7			
Fractions:			solve problems	solve problems		
Solve Problems			that involve all of	involving		
			the above	increasingly hard		
				fractions to		
				calculate		
				quantities, and		
				fractions to divide		
				quantities,		
				including non unit		
				fractions where		
				the answer is a		
				whole number		
Decimals:				recognise and	read and write	identify the value
				write decimal	decimal numbers	•
Recognise and						of each digit in
write				equivalents of any	as fractions for	numbers given to
				number of tenths	example 0.71 =	three decimal
				or hundredths	71/100	places
				recognise	recognise and use	
				andwrite decimal	thousandths and	
				equivalent to 1/4	relate them to	
				½, 3/4	tenths hundredths	
				/2, 3/4	tentiis nunureaths	

Triatile i regression er		 			
				and decimal	
				equivalents	
Decimals:			round decimals	round decimals	
Compare			with one decimal	with two decimal	
			place to the	places to the	
			nearest whole	nearest whole	
				number and to	
			number compare	one decimal place	
			numbers with the		
			same number of	read, write, order	
			decimal places up	and compare	
			to two decimal	numbers with up	
			places	to three decimal	
			piaces	places	
Decimals:			find the effect of	solve problems	multiply and
Calculations and			dividing a one or	involving number	divide numbers by
Problems			two digit number	up to three	10, 100 and 1000
Problems			by 10 and 100	decimal places	
				decimal places	giving answers up
			identifying the		to three decimal
			value of the digits		places
			in the answers as		
			ones, tenths and		multiply 1 digit
			hundredths		numbers with up
					to two decimal
					places by whole
					numbers
					use written
					division methods
					in cases where the
					answer has up to
					two decimal places
					solve problems
					which require
					answers to be
					rounded to
					Tourided to

5	Skills (Sussea of Triffic	,					specific degrees of
Fractions, Decimals and Percentages					solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol and understand that percent relates to number of parts per hundred and write percentages as a fraction with the denominator 100 and as a decimal Solve problems which require knowing percentage and decimal equivalents of ½, 1/4, 1/5, 2/5, 4/5 and those fractions with the nominator of a multiple of 10 or	associate a fraction with division and calculate decimal fraction equivalents for a simple fraction recall and use equivalence is between simple fractions decimals and percentages including in different contexts
			Ratio and	Proportion		25	
Ration and Proportion							solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

Maths Progression o	f Skills (based on White	e Rose Maths)			
					solve problems involving the calculation of percentages 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
Algebra					multiples use simple formula generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation

Maths Progression of Skills (based on White	Rose Maths)					
						with two unknowns
						enumerate possibilities of combinations of two variables
			rement			
Using Measure	Compare, describe and solve practical problems for: lengths and height mass/weight capacity and volume time measure and begin to record the following: lengths and height mass/ weight capacity /volume time (hours, minutes, seconds)	choose and use appropriate standard units to estimate and measure length/ height in any direction mass temperature capacity to the nearest appropriate unit using rulers scales thermometers and measuring vessels compare and order Length, mass, volume/ capacity and record the results using > <and =<="" td=""><td>Measure, compare, add and subtract lengths (m/cm/mm); mass (kg,g); volume/capacity (I/mI)</td><td>convert between different units of measure estimate compare and calculate different measures</td><td>convert between different units of metric measure understand and use approximate equivalence is between metric units an common imperial units such as inches pounds and pints use all four operations to solve problems involving measure using decimal notation including scaling</td><td>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 notations up to three decimal places convert between miles and kilometres</td></and>	Measure, compare, add and subtract lengths (m/cm/mm); mass (kg,g); volume/capacity (I/mI)	convert between different units of measure estimate compare and calculate different measures	convert between different units of metric measure understand and use approximate equivalence is between metric units an common imperial units such as inches pounds and pints use all four operations to solve problems involving measure 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 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 notations up to three decimal places convert between miles and kilometres

Measurement:	·	recognise an know	recognise and use	add and subtract	Estimate, compare	use all four	
Money		the value of	the symbols for	amount of money	and calculate	operations to	
		different	pounds (£) and	to give change	different measures	solve problems	
		denominations of	pence (p) combine	using both pounds	including money in	involving measure	
		coins and notes	amounts to make	and pence in	pounds and pence	for example	
		coms and notes	a particular value	practical context	pourius una perice	money	
			a particular value	practical context		money	
			find different				
			combinations of				
			coins that equal				
			the same amount				
			of money				
			of money				
			solve simple				
			problems in a				
			practical context				
			•				
			involving addition and subtraction of				
			money of the				
			same unit				
			including giving				
Management			change	tell and write the	read write and	aalua mualalamaa	
Measurement:		sequence events	compare and			solve problems	use read write and
Time		in chronological	sequence intervals	time from an	convert time	involving	convert between
		order using	of time	analogue clock	between analogue	converting	standard units
		language for		including using	and digital 12 and	between units of	converting
		example, before	tell and write the	Roman numerals	24 hour clocks	time	measurements of
		and after, next,	time to five	from I too XII and			time from a
		first, today,	minutes, including	12 hour and 24	solve problems		smaller unit of
		yesterday,	quarter past/to	hour clocks	involving		measure to a
		tomorrow,	the hour and draw		converting from		larger unit and
		morning,	the hands on the	estimate and read	hours to minutes,		vice versa
		afternoon and	clock face to show	time with	minutes to		
		evening	these times	increasing	seconds, years to		
				accuracy to the	months, weeks to		
		recognise and use	know the number	nearest minute;	days		
		language relating	of minutes in an	record and			

<u> </u>	Skiiis (Basea on Trine)	to dates, including	hour and the	compare time in			
		days of the week,	number of hours	terms of seconds,			
		weeks, months	in a day	minutes and			
		and years	iii a day	hours; use			
		allu years		vocabulary such as			
		+ all +: a + a + b a		•			
		tell time to the		o'clock, am/pm			
		hour and half past		,morning,			
		the hour and draw		afternoon, noon			
		hands on the clock		and midnight			
		face to show these		Know the number			
		times		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 a			
				particular event or			
				task			
Measurement:				measure the	measure and	measure and	recognise that
Perimeter, Area,				perimeter of	calculate the	calculate the	shapes with the
Volume				simple 2D shapes	perimeter of a	perimeter of	same area can
				5p.c 5ap c 5	rectilinear figure	composite	have different
					(including squares)	rectilinear shapes	perimeters and
					in centimetres and	in centimetres and	vice versa
					metres	metres	vice versu
						11100100	recognise when it
					find the area of	calculate and	is possible to use
					rectilinear shapes	compare the area	formulae for area
					by counting	of rectangles	and volume of
						~	
					squares	including squares	shapes
						and including	
						using standard	

Maths Progression of Skills (based on White Rose Maths)									
					units and estimate the area of irregular shapes estimate volume for example using one centimetre cubed blocks to build cuboids including cubes and capacity for example using water	calculate the area of parallelograms and triangles calculate estimate and compare volume of cubes and cuboids using standard units including cubic centimetres and cubic metres and extending to other units			
		Geor	netry						
Geometry: 2D shapes	recognise an name, 2D shapes for example rectangles (including squares), circles and triangles	identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line identify 2D shapes on the surface of 3D shapes)for example a circle on a cylinder and a triangle on a pyramid) compare and sort common 2D shapes and everyday objects	draw 2D shapes	compare and classify geometric shapes including quadrilaterals and triangles based on their properties and size identify lines of symmetry in 2D shapes presented on different orientations	distinguish between regular and irregular polygons based on reasoning about equal sides and angles use the properties of rectangles to juice related facts and find missing lengths and angles	draw 2D 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 and diameter and circumference and know that the diameter is twice the radius			

	Skills (based off writte						
Geometry: 3D shapes		recognise and name common 3D shapes for example cuboids including cubes pyramids and spheres	recognise and name common 3D shapes for example cuboids including cubes pyramids and spheres compare and sort common 3D shapes and everyday objects	make 3D shapes using modelling materials recognise 3D shapes in different orientations and describe them		identify 3D shapes including cubes and other cuboids from 2D representations	recognise describe and build simple 3D 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 half a turn three make 3/4 of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2D shapes represented in different orientations complete a simple symmetrical 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 angles at a point on a straight line and half a turn other multiples of 90 degrees	find unknown angles in any triangles, quadrilaterals and regular polygons recognise angles where they meet at a point, on a straight line or are vertically opposite and find missing angles

Geometry:	(1)	describe position	order and arrange		describe positions	identify describe	describe positions
Position and		direction and	combinations of		on a 2D grid as	an represent the	on the full
Direction		movement,	mathematical		coordinates in the	position of a shape	coordinate grid all
Direction		•			first quadrant	following a	4 quadrants
		including whole,	objects in patterns		ilist quaurant	reflection or	4 quaurants
		half, quarter and	and sequences		4		1
		three quarter			describe	translation, using	draw and
		turns	use mathematical		movements	the appropriate	translate simple
			vocabulary to		between positions	language, and	shapes on the
			describe position		as translations of a	know that the	coordinate plane,
			direction and		given unit to the	shape has not	and reflect them in
			movement		left/ right and up/	changed	the axes
			including		down		
			movement in a				
			straight line and		plot specified		
			distinguishing		points and draw		
			between rotation		sides to give to		
			as a turn and in		complete a given		
			terms of right		Polygon		
			angles for quarter,				
			half and three				
			quarter turns				
			clockwise and				
			anticlockwise				
			Stati	stics			
Statistics:			interpret and	interpret and	interpret and	complete read and	interpret and
Present and			construct simple	present data using	present discrete	interpret	construct pie
interpret			pictograms, tally	bar charts,	and continuous	information in	charts and line
			charts, block	pictograms and	data using	tables including	graphs and use
			diagrams and	tables	appropriate	timetables	these to solve
			simple tables		graphical methods		problems
					including bar		
					charts and time		
					graphs		
Statistics:			ask and answer	solve one step and	solve comparison,	solve comparison,	calculate and
Solve Problems			simple questions	two step questions	sum and	sum and	interpret the mean
			by counting the	(for example How	difference	difference	as an average
			number of objects	many more? and	problems using	problems using	

O	•	,					
			in each category	How many fewer?)	information	information	
			and sorting the	using information	presented in bar	presented in a line	
			categories by	presented in	charts, pictograms	graph	
			quantity	scaled bar chart	tables and other,		
				and pick to	graphs		
			ask and answer	grammes and			
			questions about	tables			
			totalling and				
			comparing				
			categorical data				