

Maths 2023-2024

Curriculum Intent Statement

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects.

The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

ELGs related to Subject and Topics

ELG: Number

Children at the expected level of development will:

- Have a deep understanding of number to 10, including the composition of each number;
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

ELG: Numerical Patterns

Children at the expected level of development will:

- Verbally count beyond 20, recognising the pattern of the counting system;
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

	Topic	Year 1		Topic	Year 2	
Autumn	Place V: (Within	What children will learn: Place Value	What children will be able to do: Place Value Sort objects Count objects Count objects from a larger group Represent objects Recognise numbers as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers	Place Value	What children will learn: Place Value 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 Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward Recognise the place value of each digit in a 2-digit number (tens, ones) Compare and order numbers from 0 up to 100; use and = signs	What children will be able to do: Place Value Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line Compare objects Compare numbers

Addition and Subtraction (Within 10)	Addition and Subtraction Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs Represent and use number bonds and related subtraction facts within 10	Order objects and numbers The number line Addition and Subtraction Introduce parts and wholes Part-whole model Write number sentences Fact families – addition facts Number bonds within 10 Systematic number bonds within 10 Number bonds to 10	Addition and Subtraction	Addition and Subtraction Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recognise and use the inverse relationship between addition and subtraction and use this to check calculations Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s a 2-digit number and 10s -two 2-digit numbers -adding three 1-digit numbers Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot	 Order objects and numbers Count in 2s, 5s and 10s Count in 3s Addition and Subtraction Bonds to 10 Fact families – addition and subtraction bonds within 20 Related facts, for example 3 + 5 = 8 so 30 + 50 = 80 Bonds to 100 (10s) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 Subtract across a 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s

		What children will	What children will be		What children will	What children will be
		learn:	able to do:		learn:	able to do:
	Addition and Subtraction	Addition and Subtraction	Addition and Subtraction		Addition and Subtraction	Addition and Subtraction
	(Within 10)	 Add and subtract one-digit and two-digit numbers to 10, including 0 Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9 	 Addition – add together Addition – add more Addition problems Find a part Subtraction – find a part Fact families – the eight facts Subtraction – take away / cross out (How many left?) Subtraction – take away (How many left?) Subtraction on a number line Add or subtract 1 or 2 		Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: -a 2-digit number and 1s -a 2-digit number and 10s -two 2-digit numbers -adding three 1-digit numbers Compare and order numbers from 0 up to 100; use and = signs Solve problems with addition and subtraction: - using concrete objects	Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problem
HT2	<u>Geometry</u> (Shape)	Geometry Recognise and name common 2-D and 3-D shapes, including: - 2D shapes [for example, rectangles (including squares), circles and triangles] - 3D shapes [for example, cuboids (including cubes), pyramids and spheres]	Geometry Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 2D and 3D shapes		and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	
	Measurement (Length and Height)	Measurement Compare, describe and solve practical problems for lengths and heights Measure and begin to record lengths and heights	Measurement Compare lengths and heights Measure length using objects Measure length in centimetres	<u>Geometry</u> (Shape)	Geometry Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes	Geometry Recognise 2D and 3D shapes Count sides on 2D shape Count vertices on 2D shapes Traw 2D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2D shapes

Г		J					Compare and sort	Count faces on 3D shapes
							common 2-D and 3-D	Count races on 3D shapes Count edges on 3D shapes
							shapes and everyday	Count vertices on 3D
							objects	shapes
								Sort 3D shapes
								Make patterns with 2D
								and 3D shapes
						Measurement	Measurement	Measurement
						(Money)	Recognise and use	Count money – pence
							symbols for pounds (£)	Count money – pounds
							and pence (p); combine	(notes and coins)
							amounts to make a	Count money – pounds
							particular value	and pence
							Solve simple problems in	Choose notes and coins
							a practical context involving addition and	Make the same amount
							subtraction of money of	Compare amounts of
							the same unit, including	money
							giving change	Calculate with money
							Find different	Make a poundFind change
							combinations of coins	Two-step problems
							that equal the same	1 Wo step problems
_							amounts of money	
				What children will	What children will be		What children will	What children will be
			Diago Value	learn:	able to do:	Mantain lineting and Divinion	learn:	able to do:
			<u>Place Value</u> (Within 20)	Place Value ■ Count to and across 10,	Place Value Count within 20	Multiplication and Division	Multiplication and Division Recall and use	Multiplication and Division Recognise equal groups
			(\vitimi 20)	forwards and backwards,	Understand 10		multiplication and division	Make equal groups
				beginning with 0 or 1, or	Understand 11,12 and 13		facts for the 2, 5 and 10	Add equal groups
				from any given number	 Understand 11,12 and 13 Understand 14, 15 and 16 		multiplication tables,	Introduce the
				 Count, read and write 	• Understand 17, 18 and 19		including recognising odd	multiplication symbol
				numbers to 20 in	Understand 20		and even numbers	Multiplication sentences
	Spring	НТ3		numerals; count in	1 more and 1 less		Calculate mathematical	Use arrays
'	Spring	1113		multiples of 2s, 5s and	The number line to 20		statements for	Make equal groups –
				10s	Estimate on a number		multiplication and division within the multiplication	grouping
				 Given a number, identify 	line to 20		tables and write them	Make equal groups –
				1 more and 1 less	Compare numbers to 20		using the multiplication	sharing
				 Identify and represent 	Order numbers to 20		(×), division (÷) and equals	• The 2 times-table
				numbers using objects			(=) signs	• Divide by 2
				and pictorial			 Show that multiplication 	Doubling and halving
				representations including			of 2 numbers can be done	Odd and even numbers
				the number line, and use			in any order	• The 10 times-table
L				the language of: equal to,			(commutative) and	

	more than less than	<u> </u>		division of 1 number by	- Divide by 10
	more than, less than (fewer), most, least			division of 1 number by another cannot	Divide by 10 The E times table
	, , , ,			Solve problems involving	• The 5 times-table
	Read and write numbers			multiplication and	• Divide by 5
	from 1 to 10 in numerals and words			division, using materials,	The 5 and 10 times-table
	and words			arrays, repeated addition,	
				mental methods, and	
Addition and Subtraction	Addition and Subtraction	Addition and Subtraction		multiplication and division	
(Within 20)	Read, write and interpret	Add by counting on within		facts, including problems	
	mathematical statements	20		in contexts	
	involving addition (+),	Add ones using number		D.C. a surray and	Measurement
	subtraction (-) and equals	bonds	Measurement	Measurement Chassa and use	Measure in centimetres
	(=) signs	Find and make number	(Length and Height)	Choose and use appropriate standard	Measure in metres
	Represent and use	bonds to 20		units to estimate and	Compare lengths and
	number bonds and	• Doubles		measure length/height in	heights
	related subtraction facts	Near doubles		any direction (m/cm);	Order lengths and heights
	within 20	Subtract ones using		mass (kg/g); temperature	Four operations with
	Add and subtract one-	number bonds		(°C); capacity (litres/ml) to	lengths and heights
	digit and two-digit	Subtraction – counting		the nearest appropriate	lengths and heights
	numbers to 20, including	back		unit using rulers, scales,	
	0			thermometers and	
				measuring vessels	
				 Compare and order lengths, mass, 	
				volume/capacity and	
				record the results using >,	
				< and =	
				 Solve problems with 	
				addition and subtraction	
				using concrete objects	
				and pictorial	
				representations, including	
				those involving numbers,	
				quantities and measures	
				 Solve problems involving multiplication and 	
				division, using materials,	
				arrays, repeated addition,	
				mental methods, and	
				multiplication and division	
				facts, including problems	
				in contexts	

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		What children will	What children will be		What children will	What children will be
		learn:	able to do:		learn:	able to do:
	Addition and Subtraction	Addition and Subtraction	Addition and Subtraction	<u>Fractions</u>	<u>Fractions</u>	<u>Fractions</u>
	(Within 20)	Represent and use	Subtraction – finding the		Recognise, find, name and	Introduction to parts and
		number bonds and	difference		write fractions 1/3, 1/4,	whole
		related subtraction facts	Related facts		2/4 and 3/4 of a length,	Equal and unequal parts
		within 20	Missing number problems		shape, set of objects or	Recognise a half
		Add and subtract one-			quantity	Find a half
		digit and two-digit			Write simple fractions, for	Recognise a quarter
		numbers to 20, including			example 1/2 of 6 = 3 and	Find a quarter
		0			recognise the equivalence	Recognise a third
		Solve one-step problems			of 2/4 and 1/2	Find a third
		that involve addition and				Find the whole
		subtraction, using				Unit fractions
		concrete objects and				Non-unit fractions
		pictorial representations,				Recognise the equivalence
		and missing number problems such as 7 = ? -				of a half and two quarters
		problems such as 7 = r -				Recognise three-quarters
						Find three-quarters
	Place Value	Place Value	Place Value			Count in fractions up to a
HT4	(Within 50)	• Count to and across 10,	• Count from 20 to 50			whole
		forwards and backwards,	• 20, 30, 40 and 50			
		beginning with 0 or 1, or	Count by making groups	<u>Measurement</u>	<u>Measurement</u>	<u>Measurement</u>
		from any given number	of tens	(Mass, Capacity and	Choose and use	Compare mass
		 Count, read and write 	Groups of tens and ones	Temperature)	appropriate standard	Measure ingrams
		numbers to 50 in	Partition into tens and		units to estimate and	Measure in kilograms
		numerals; count in	ones		measure length/height in	Four operations with mass
		multiples of 2s, 5s and	The number line to 50 Tetimate on a number		any direction (m/cm);	Compare volume and
		10s	• Estimate on a number line to 50		mass (kg/g); temperature	capacity
		 Given a number, identify 	• 1 more, 1 less		(°C); capacity (litres/ml) to the nearest appropriate	Measure in millilitres
		1 more and 1 less	2		unit, using rulers, scales,	Measure in litres
		 Identify and represent 			thermometers and	Four operations with
		numbers using objects			measuring vessels	volume and capacity
		and pictorial			Compare and order	Temperature
		representations including			lengths, mass,	
		the number line, and use the language of: equal to,			volume/capacity and	
		more than, less than			record the results using >,	
		(fewer), most, least			< and =	
		, ,,,				

		Measurement	Measurement	Measurement			
		(Mass and Volume)	Compare, describe and	Heavier and lighter			
		(**************************************	solve practical problems	Measure mass			
			for mass/weight and	Compare mass			
			capacity/volume	Full and empty			
			Measure and begin to	Compare volume			
			record mass/weight and	Measure capacity			
			capacity/volume	Compare capacity			
			What children will	What children will be		What children will	What children will be
			learn:	able to do:		learn:	able to do:
		Baulainlineting and Divinion			B. d. a.		
		Multiplication and Division	Multiplication and Division	Multiplication and Division	Measurement (Time)	Measurement Toll and write the time to	Measurement
			 Solve one-step problems involving multiplication 	Count in 2sCount in 10s	(Time)	Tell and write the time to five minutes, including	O'clock and half past
			and division, by	• Count in 10s		five minutes, including	Quarter past and quarter
			calculating the answer	Recognise equal groups		quarter past/to the hour and draw the hands on a	to
			using concrete objects,	Add equal groups		clockface to show these	Tell time past the hour Tell time to the hour
			pictorial representations	Make arrays		times	
			and arrays with the	Make doubles		Know the number of	• Tell the time to 5 minutes
			support of the teacher	Make equal groups –		minutes in an hour and	Minutes in an hour
			Count, read and write	grouping		the number of hours in a	Hours in a day
			numbers to 100 in	Make equal groups –		day	
			numerals; count in	sharing		Compare and sequence	
			multiples of 2s, 5s and			intervals of time	
			10s				
Summer	HT5	_		Functions	Statistics	Statistics	Statistics
Summer	піз	<u>Fractions</u>	Fractions	Fractions	<u>Statistics</u>		Make tally charts
			Recognise, find and name half as 1 of 2 areas.	 Recognise a half of an object or a shape 		 Interpret and construct simple pictograms, tally 	Tables
			a half as 1 of 2 equal parts of an object, shape	Find a half of an object or		charts, block diagrams	Block diagrams
			or quantity	a shape		and simple tables	-
				Recognise a half of a		Ask and answer simple	• Draw pictograms (1-1)
			Recognise, find and name	quantity		questions by counting the	Interpret pictograms (1-1)Draw pictograms (2, 5 and
			a quarter as 1 of 4 equal parts of an object, shape	Find half of a quantity		number of objects in each	, , ,
			or quantity	Recognise a quarter of an		category and sorting the	10)
			or quartity	object or shape		categories by quantity	• Interpret pictograms (2, 5
				Find a quarter of an		Ask and answer questions	and 10)
				object or shape		about totalling and	
				Recognise a quarter of a		comparing categorical	
				quantity.		data	
				Find a quarter of a		Recall and use	
				quantity.		multiplication and division	
						facts for the 2, 5 and 10	
						· ·	
						multiplication tables,	

	Geometry	Geometry	<u>Geometry</u>		including recognising odd	
	(Position and Direction)	• Describe position,	Describe turns		and even numbers	
		direction and movement, including whole, half, quarter and three-quarter turns	 Describe position – left and right Describe position – forwards and backwards Describe position – above 	Geometry (Position and Direction)	• Use mathematical vocabulary to describe position, direction and	Geometry Language of position Describe movement Describe turns
			and below • Ordinal numbers		movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise) Order and arrange combinations of mathematical objects in patterns and sequences	Describe movement and turns Shape patterns with turns
		What children will	What children will be		What children will	What children will be
		learn:	able to do:		learn:	able to do:
НТ6	Place Value (Within 100)	Place Value Count to and across 10, forwards and backwards, beginning with 0 or 1, or from any given number Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s Given a number, identify 1 more and 1 less Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to,	Place Value Count from 50 to 100 Tens to 100 Partition into tens and ones The number line to 100 1 more, 1 less Compare numbers with the same number of tens Compare any two numbers		Place Value 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 Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward Recognise the place value of each digit in a 2-digit number (tens, ones) Compare and order numbers from 0 up to 100; use and = signs	Place Value Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line

Measurement (Money) Measurement (Itime) Necall and use addition and subtraction lacts to 20 fuently and derive and use this to check calculations and subtraction bonds as scrooks, first, floaky, yetser, forey, first, floaky, yetser, forey, first, floaky, yetser, forey, first, floaky, yetser, forey, first, floaky, yetser, firs					
walue of different denominations of coins and notes. Measurement (Time) Measurement (Time) Measurement Compare, describe and colve practical problems for time (e.g., quicker, show, events) in Chronological order using language (for example, before and after, next, first, today, vesterday, tomorrow, morning, afterneon and evening) Recognise and use language relating to date, including days of the week, months and years. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. **Recognise coins** Measurement **Recognise notes **Count in 20. **Addition and Subtraction **Recogline notes 20 fluently, and derive and use addition and subtraction bends within 20 to 100 to 1	Measurement	Measurement	Measurement		Order objects and
walue of different denominations of coins and notes. Measurement (Time) Measurement (Time) Measurement Compare, describe and selection of solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) Recognise and use language relating to dates, including days of the weeks, weeks, months and years. I let the time to the hour and half past the hour, and draw the hands on a clock face to show these times. **Recognise coins** Measurement **Before and after **Describe and after **Describe and after **Describe and after **Dosy of the week **Months of the year **Hours, minutes and seconds **Recognise and use tradition and subtraction on and subtraction bands within 20 **Recognise and use the lower and use this to check calculations and subtraction and use this to check calculations. Add of subtract a subtraction and use this to check calculations. Add of subtract a subtract to a subtraction and use this to check calculations. Add of subtract a subtract to a subtraction and use this to check calculations. Add of subtract a subtract to a subtraction and use this to check calculations. Add of subtract a subtract to a subtraction and use this to check calculations. Add of subtract a subtract to a subtract to a subtract to a subtract to a subtract a subtract to a subtract and the subtract and subtract and subtract to a subtract a subtract and subtrac	(Money)	 Recognise and know the 	Unitising		numbers
denominations of coins and notes. Measurement (Time) Measurement Compare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, vesterday, tomorrow, morning, aftermoon and evening) Recognise and use language relating to dates, including days of the weeks, weeks, months and years. Fill the time to the hour and daff past the hour, and draw the hands on a dock face to show these times. Measurement Ocmpare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later) Osequence events in chronological order using language (for example, before and after, next, first, today, vesterday, tomorrow, morning, aftermoon and evening) Recognise and use the inverse relationship between addition and subtract is to check calculations. Add and subtract is to complete inverse relationship between addition and subtraction and use this to check calculations. Add and subtract is 20 fluently and extreme and 15 to check calculations. Add and subtract is 20 fluently and extreme and 15 to check calculations. Add and subtract is 20 fluently and extreme and 15 to check calculations. Add and subtract is 20 fluently and subtraction and use this to check calculations. Add and subtract is 20 fluently and subtraction and use this to check calculations. Add and subtract is 20 fluently and subtraction and use the subtraction and			_		• Count in 2s, 5s and 10s
Measurement (Time) Measurement (Time) Measurement Compare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) Recognise and use language relating to dates, including days of the weeks, months and years. Tell the time to the hour, and draw the hands on a clock face to show these times. Clock face to show these times. Count in coins Measurement Measurement Measurement Defore and after Days of the week Months of the year Months of the		denominations of coins	_		
Measurement (Time) Measurement Compare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, vesterday, tomorrow, morning, afternoon and evening) Recognise and use language relating to dates, including days of the weeks, weeks, months and years. Tell the time to the hour and hard past the hour, and draw the hands on a clock face to show these times. Measurement Measurement Before and after Days of the week Nonths of the year Doys of the week Nonths of the year Days of the week Nonths and subtraction and subtract to to to the Calculations Fact late time to the hour and bard past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and hard past the hour, and draw the hands on a clock face to show these times. Measurement Before and after Days of the week Nonths of the year Days of the week Nonths of the year Days of the week Addition and Subtraction Reclanding and subtraction to an dust with the inverse and subtraction to the calculations. Fact I the time to the hour and bard past the four, and the past the hour, and the p		and notes.	_		
Measurement (Time) Measurement Compare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tromorrow, morning, afternoon and evening) Recognise and use relationship between addition and subtract to a date, including days of the weeks, weeks, months and years. Field the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Measurement Series and use addition and subtract to 100 Recognise and use the inverse relationship between addition and subtract to a date, including days of the weeks, weeks, months and years. Field the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Measurement Before and after Days of the week Measurement Body of the week Measurement Before and after Days of the week Measurement Before and after Days of the week Measurement Body of the week Defore and after Days of the week Defore a				Addition and Subtraction	Addition and Subtraction
Measurement					
Compare, describe and solve practical problems for time (e.g., quicker, slower, earlier, later)	<u>Measurement</u>	Measurement	Measurement		
solve practical problems for time (e.g., quicker, slower, earlier, later) Sequence events in chronological order using language (for example, before and after, next, first, today, vesterday, tomorrow, morning, afternoon and evening) Recognise and use language relating to dates, including days of the weeks, weeks, months and years. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Solve from the measures explaintly the measures explaintly increasing knowledge of mental and written methods. Solve from the measures explaintly increasing knowledge of mental and written methods. Solve from the measures explaintly increasing knowledge of mental and written methods. Solve from the measures explying their increasing knowledge of mental and written methods. Solve from the measures explying their increasing knowledge of mental and written methods. Solve from measures explying their increasing knowledge of mental and written methods. Solve from the method explored the measures explying their increasing knowledge of mental and written methods. Solve from the measures explying their increasing knowledge of mental and written methods. Solve from the measures explying their increasing knowledge of mental and written methods. Solve from the method in the method and written methods. Solve from the method in the method and written methods. Solve from the method in the method and written methods. Solve from the method in the method and written methods. Solve from the method in the method and written methods. Solve from the method in the method and written methods. Solve from the method in the method and subtraction and subtraction and subtraction and subtraction and subtraction and subtraction and subtract to a feet method and subtract to a feet meth	(Time)		 Before and after 		
- Months of the year			 Days of the week 		
slower, earlier, later) • Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) • Recognise and use language relating to dates, including days of the weeks, weeks, months and years. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Hours, minutes and seconds • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Hours, minutes and seconds • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Hours, minutes and seconds • Tell the time to the hour and half past the hour. • Tell the time to the half hour? • Add and subtract no as ubstractions, and mentally, including: • Solve problems with addition and subtractions: • Solve problems with addition and subtractions: • Solve problems with addition and subtractions: • Add and subtract 19 • Add to the next 10 • Subtract a 1-digit numbers and percental incompany and incompany		for time (e.g., quicker,	 Months of the year 	·	
seconds chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) • Recognise and use language relating to dates, including days of the weeks, weeks, months and years. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Solve problems with addition and subtraction: • Solve problems with addition and subtraction • Solve problems with addition and subtraction of • Solve problems with addition and subtraction • Solve problems with addition of a unmbers • Add and subtract • Add to the with of the w		slower, earlier, later)	 Hours, minutes and 		
Tell the time to the hour addition and subtract is hour to the check calculations and subtract in unmbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s and in a did not and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and subtract 1s and subtract in to check calculations. Add and subtract 1s and a subtract in to the check calculations. Add and subtract 1s and had subtract in to check calculations. Add the next 10 Add three 1-digit numbers are 2 and in the property objects, and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods. Show that addition of 2 numbers can be done in any order (commutative) and subtract 1s.		 Sequence events in 	seconds		
• Tell the time to the half hour • Add and subtract numbers end 15. • 2. digit number and 10. • Subtract 1 a digit number adding three 1 - digit numbers. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Tell the time to the half hour • Add and subtract on the subt			Tell the time to the hour	· · · · · · · · · · · · · · · · · · ·	
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first, today, yesterday, tomorrow, morning, afternoon and evening) • Recognise and use language relating to dates, including days of the weeks, weeks, months and years. • Tell the time to the hour, and draw the hands on a clock face to show these times. • Tollow face to show these times. • Add and subtract numbers using concrete objects, pictoral representations, and mentally, including: • a 2-digit number and 10s. • two 2-digit number and 10s. • two 2-digit numbers • adding three 1-digit numbers • Solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another			hour		
afternoon and evening) Recognise and use language relating to dates, including days of the weeks, weeks, months and years. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the times. Tell the time of the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time of the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time of the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time of the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time of the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. Tell the time to the hour and half past the hour, and the half past the half past t		first, today, yesterday,			
arternoon and evening) • Recognise and use language relating to dates, including days of the weeks, weeks, months and years. • Tell the time to the hour, and draw the hands on a clock face to show these times. • Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another		_			
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dates, including days of the weeks, weeks, months and years. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Tell see to show these times. • Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another		language relating to			
the weeks, weeks, months and years. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another					
months and years. • Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times. • Solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another					_
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clock face to show these times. addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another				• Solve problems with	
times. - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods - Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another		clock face to show these		· ·	
and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another		times.			
representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another					
those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another					
quantities and measures - applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another				· · · · · · · · · · · · · · · · · · ·	
- applying their increasing knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another				_	
knowledge of mental and written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another				· · ·	
written methods • Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another					
numbers can be done in any order (commutative) and subtraction of 1 number from another					
any order (commutative) and subtraction of 1 number from another				Show that addition of 2	
and subtraction of 1 number from another				numbers can be done in	
and subtraction of 1 number from another				any order (commutative)	
number from another					

		 Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts Multiplication Add equal grow. Multiplication Use arrays Make equal grow Use arrays Divide by 2 Doubling and Odd and eve The 10 times Divide by 10 The 5 times-t Divide by 5 The 5 and 10 	ual groups groups en symbol en sentences groups — able halving en numbers etable able
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		Topic	Year 3		Topic	Year 4	
			What children will	What children will be		What children will	What children will be
			learn:	able to do:		learn:	able to do:
		<u>Place Value</u>	Place Value	Place Value	Place Value	Place Value	<u>Place Value</u>
Autumn	HT1			Place Value Represent numbers to 100 Partition numbers to 100 Number lines to 100 Count in hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Recognise hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimate on a number line to 1,000 Compare numbers to	Place Value	Place Value Count in multiples of 6, 7, 9, 25 and 1,000 Find 1,000 more or less than a given number Count backwards through 0 to include negative numbers Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s) Order and compare numbers beyond 1,000 Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 or 1,000 Solve number and practical problems that	Place Value Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Counting in thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000
		Addition and Subtraction	Addition and Subtraction Add and subtract numbers mentally, including: - a three-digit number and 1s - a three-digit number and 10s - a three-digit number and 100s Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction	 1,000 Order numbers to 1,000 Count in 50s Addition and Subtraction Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot patterns when adding mentally Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 1s across a 100 Make connections when adding and subtracting 	Addition and Subtraction	involve all of the above and with increasingly large positive numbers Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value Addition and Subtraction Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate Solve addition and subtraction and subtraction two-step	Order numbers to 10,000 Roman numerals to 100 Round to the nearest 10 Round to the nearest 100 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000 Addition and Subtraction Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4-digit numbers — no exchange Add two 4-digit numbers — one exchange Add two 4-digit numbers — more than one exchange

		Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	Add two numbers (no exchange) Subtract two numbers (no exchange)		problems in contexts, deciding which operations and methods to use and why	Subtract two 4-digit numbers – no exchange Subtract two 4-digit numbers – one exchange Subtract two 4-digit numbers – more than one exchange
HT2	Addition and Subtraction	What children will learn: Addition and Subtraction • Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers • Solve problems, including missing number problems, using number facts, place	What children will be able to do: Addition and Subtraction • Add two numbers (across a 10) • Add two numbers (across a 100) • Subtract two numbers (across a 10) • Subtract two numbers (across a 10) • Subtract two numbers (across a 100) • Add 2-digit and 3-digit numbers • Subtract a 2-digit from a 3-digit number	Addition and Subtraction Measurement	What children will learn: Addition and Subtraction • Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation Measurement	What children will be able to do: Addition and Subtraction Efficient subtraction Estimate answers Checking strategies
HIZ	Multiplication and Division A	value, and more complex addition and subtraction Multiplication and Division Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Write and calculate mathematical statements for multiplication and division using the	 Complements to 100 Estimate answers Inverse operations Make decisions (solve problems) Multiplication and Division Multiplication – equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 	(Area) Multiplication and Division A	 Find the area of rectilinear shapes by counting squares Multiplication and Division Recall multiplication and division facts for multiplication tables up to 12 × 12 Recognise and use factor pairs and commutativity in mental calculations 	 Understand what area is Count squares Make rectilinear shapes using a given area Compare areas Multiplication and Division Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts

		multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods	 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables 		Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	 The 3, 6 and 9 timestables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts
		What children will	What children will be		What children will	 Multiply by 1 and 0 Divide a number by 1 and itself Multiply 3 numbers What children will be
Spring HT3	Multiplication and Division B Measurement (Length and Perimeter)	learn: Multiplication and Division Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1- digit numbers, using mental and progressing to formal written methods 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	able to do: Multiplication and Division Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number – no exchange Multiply a 2-digit number by a 1-digit number – with exchange Link multiplication and division Divide a 2-digit number – no exchange Divide a 2-digit number by a 1-digit number – no exchange Divide a 2-digit number – flexible partitioning Divide a 2-digit number – flexible partitioning Divide a 2-digit number – with remainders Scaling How many ways? (Correspondence problems)	Multiplication and Division B	Iva Children Will learn: Multiplication and Division Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables up to 12 × 12 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) 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 Multiply 2-digit and 3-digit number using formal written layout Use place value, known and derived facts to multiply and divide	able to do: Multiplication and Division Recognise factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts — multiplication and division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number Divide a 2-digit number by a 1-digit number Divide a 3-digit number by a 1-digit number Divide a 3-digit number by a 1-digit number Edigit number Correspondence problems Efficient multiplication

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		 Measure, compare, add and subtract lengths (m/cm/mm) Measure the perimeter of simple 2D shapes 	Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres) Compare lengths Add lengths Subtract lengths Recognise what perimeter is Measure perimeter Calculate perimeter	Measurement (Length and Perimeter) Fractions	multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers Measurement Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Fractions Recognise and use fractions as numbers: unit fractions with small denominators	Measurement Measure in kilometres and metres Equivalent lengths (kilometres and metres) Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Perimeter of regular polygons Perimeter of polygons Fractions Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers
HT4	<u>Fractions A</u>	What children will learn: Fractions Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Compare and order unit fractions, and fractions with the same denominators Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	What children will be able to do: Fractions Understand the denominators of unit fractions Compare and order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare and order non-unit fractions Fractions and scales	<u>Fractions</u>	What children will learn: Fractions Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator	What children will be able to do: Fractions Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fractions families Add two or more fractions

		Measurement (Money)	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators Measurement Add and subtract amounts of money to give change, using both £ and p in practical contexts	Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models Measurement Pounds and pence Convert pounds and pence Add money Subtract money Find change	Geometry (Properties of Shape)	Geometry Recognise angles as a property of shape or a description of a turn Identify acute and obtuse angles and compare and order angles up to two right angles by size 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 Complete a simple symmetric figure with respect to a specific line of symmetry	Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers Geometry Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete and symmetric figure
Summer	HT5	Fractions B	What children will learn: Fractions Add and subtract fractions with the same denominator within one whole Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	What children will be able to do: Fractions Add fractions Subtract fractions Partition the whole Unit fractions of a set of objects Non-unit fractions of a set of objects Reasoning with fractions of amounts	<u>Decimals A</u>	What children will learn: Decimals Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 Recognise and write decimal equivalents of any number of tenths or hundredths Compare numbers with the same number of	What children will be able to do: Decimals Tenths as fractions Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart

Geometry	Geometry	Geometry		decimal places up to 2	Divide a 1- or 2-digit
(Properties of Shape)	Recognise angles as a	Turns and angles		decimal places	number by 100
	property of shape or a	Right angles		Find the effect of dividing	·
	description of a turn	Compare angles		a 1- or 2-digit number by	
	 Identify right angles, 	Measure and draw		10 and 100, identifying	
	recognise that two right	accurately		the value of the digits in	
	angles make a half turn,	Horizontal and vertical		the answer as ones,	
	three make three-	lines		tenths and hundredths	
	quarters of a turn and	Parallel and		Count up and down in	
	four a complete turn;	perpendicular lines		hundredths; recognise that hundredths arise	
	identify whether angles	Recognise and describe		when dividing an object	
	are greater than or less			by 100 and dividing tenths	
	than a right angle	2D shapes		by 100 and arriang tentils	
	Measure the perimeter of	Draw polygons		 Recognise and show, 	
	simple 2-D shapes	Recognise and describe 2D change		using diagrams, families	
	Draw 2-D shapes and	3D shapes		of common equivalent	
	make 3-D shapes using	Make 3D shapes		fractions	
	modelling materials;				
	recognise 3-D shapes in		Decimals B	Decimals	Decimals
	different orientations and		Decimals b	Recognise and write	Make a whole with tenths
	describe them			decimal equivalents of	Make a whole with
	Measure, compare, add			any number of tenths or	hundredths
	and subtract: lengths			hundredths	Partition decimals
	(m/cm/mm); mass (kg/g);			Solve simple measure and	Flexibly partition decimals
	volume/capacity (I/ml)			money problems involving	Compare decimals
	Identify horizontal and			fractions and decimals to	Order decimals
	vertical lines and pairs of			2 decimal places	Round to the nearest
	perpendicular and			 Compare numbers with 	whole number
	parallel lines			the same number of	
	p an annex mines			decimal places up to 2	Halves and quarters as
<u>Statistics</u>	<u>Statistics</u>	Statistics		decimal places	decimals
	Interpret and present	Interpret pictograms		Round decimals with 1	
	data using bar charts,	Draw pictograms		decimal place to the	
	pictograms and tables	Interpret bar charts		nearest whole number	
	Solve one-step and two-	Draw bar charts		 Recognise and write decimal equivalents to 	
	step questions using	Collect and represent		1/4, 1/2 and 3/4	
	information presented in	data		1/4, 1/2 and 3/4	
	scaled bar charts and	Two-way tables			
	pictograms and tables	- Two way tables	<u>Statistics</u>	<u>Statistics</u>	<u>Statistics</u>
	_			Interpret and present	Interpret charts
				discrete and continuous	 Comparison, sum and
				data using appropriate	difference
				graphical methods,	Interpret line graphs
				1	Draw line graphs

					including bar charts and time graphs • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	
	<u>Measurement</u> (Time)	What children will learn: Measurement Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Estimate and read time with increasing accuracy to the nearest minute;	What children will be able to do: Measurement Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock Use a.m. and p.m. Years, months and days Days and hours	<u>Measurement</u> (Money)	What children will learn: Measurement Estimate, compare and calculate different measures, including money in pounds and pence	What children will be able to do: Measurement Write money using decimals Convert between pounds and pence Compare amounts of money Estimate with money Calculate with money Solve problems with
HT6		record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events	 Hours and minutes – use start and end times Hours and minutes – use durations Minutes and seconds Units of time Solve problems with time 	<u>Measurement</u> (Time)	Measurement Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days Read, write and convert time between analogue and digital 12- and 24-hour clocks	Measurement Years, months, weeks and days Hours, minutes and seconds Convert between analogue and digital times Convert to the 24-hour clock Convert from the 24-hour clock
	Measurement (Mass and Capacity)	Measurement • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)	Measurement Use scales Measure mass in grams Equivalent masses (kilograms and grams) Compare mass Add and subtract mass	<u>Geometry</u> (Position and Direction)	Geometry Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon	Geometry Describe position using coordinates Plot coordinates Draw 2D shapes on a grid Translate on a grid

	Measure capacity and	Describe movements	Describe translation on a
	volume in millimetres	between positions as	grid
	Measure capacity and	translations of a given	
	volumes in litres and	unit to the left/right and	
	millilitres	up/down	
	Equivalent capacities and		
	volumes (litres and		
	millilitres)		
	Compare capacity and		
	volume		
	Add and subtract capacity		
	and volume		

7	Topic	Year 5		Topic	Year 6	
Autumn HT1	Place Value	What children will learn: Place Value Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 Solve number problems and practical problems involving the above Addition and Subtraction Add and subtract whole numbers with more than	What children will be able to do: Place Value Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Powers of 10 10/100/1,000/10,000/100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10, 100 or 1,000 Round within 100,000 Round within 1,000,000 Mental strategies Add whole numbers with	Place Value Addition, Subtraction, Multiplication and Division	Year 6 What children will learn: Place Value Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve the above Addition, Subtraction, Multiplication and Division Multiply multi-digit numbers up to four digits by a 2-digit whole number using the formal written method of long multiplication Divide numbers up to four digits by a 2-digit numbers up to four digits by a 2-digit number using the formal written method of long multiplication	What children will be able to do: Place Value Numbers to 1 million Numbers to 10 million Read and write numbers to 10 million Powers of 10 Number line to 10 million Compare and order any integers Round any integer Negative numbers Addition, Subtraction, Multiplication and Division Add and subtract integers Common factors Common multiples Rules of divisibility Primes to 100 Square and cube numbers

		What children will	What children will be		What children will	What children will be
		learn:	able to do:		learn:	able to do:
	Multiplication and Division A	Multiplication and Division	Multiplication and Division	Fractions A	<u>Fractions</u>	<u>Fractions</u>
	DIVISION A	Know and use the	Prime numbers		Use common factors to implify fractions: use	Equivalent fractions and simplifying
		vocabulary of prime	Square numbers		simplify fractions; use	simplifying
		numbers, prime factors	Cube numbers		common multiples to express fractions in the	• Equivalent fractions on a
		and composite (non-	Multiply by 10, 100 and		same denomination	number line
		prime) numbers	1,000		Compare and order	Compare and order (denominator)
		Establish whether a	• Divide by 10, 100 and		fractions, including	(denominator)
		number up to 100 is	1,000		fractions > 1	Compare and order
		prime and recall prime	Multiples of 10, 100 and		Add and subtract fractions	(numerator)
		numbers up to 19	1,000		with different	Add and subtract simple
		Recognise and use square	1,000		denominators and mixed	fractions
		numbers and cube			numbers, using the	Add and subtract any tv
		numbers, and the			concept of equivalent	fractions
		notation for squared (2)			fractions	Add mixed numbers
		and cubed (3)			 Identify common factors, 	Subtract mixed number
		Multiply and divide whole			common multiples and	Multi-step problems
		numbers and those			prime numbers	
		involving decimals by 10,			Solve addition and	
HT2		100 and 1,000			subtraction multi-step	
		 Multiply and divide 			problems in contexts,	
		numbers mentally,			deciding which operations	
		drawing upon known			and methods to use and	
		facts			why	
		 Solve problems involving 			 Solve problems involving 	
		multiplication and			addition, subtraction,	
		division, including using			multiplication and division	
		their knowledge of				
		factors and multiples,		Fractions B	Fractions	Fractions
		squares and cubes		·	Multiply simple pairs of	Multiply fractions by
					proper fractions, writing	integers
	Fractions A	<u>Fractions</u>	<u>Fractions</u>		the answer in its simplest	Multiply fractions by
		 Identify, name and write 	Find fractions equivalent		form	fractions
		equivalent fractions of a	to a unit fraction		Divide proper fractions by	Divide a fraction by an
		given fraction,	 Find fractions equivalent 		whole numbers	integer
		represented visually,	to a non-unit fraction		Add and subtract fractions	Divide any fraction by a
		including tenths and	 Recognise equivalent 		with different	integer
		hundredths	fractions		denominators and mixed	Mixed questions with
		 Recognise mixed numbers and improper 	Convert improper		numbers, using the	fractions
		fractions and convert	fractions to mixed		concept of equivalent	Fraction of an amount
		from one form to the	numbers		fractions	

other and write mathematical statements > 1 as a mixed number • Compare and order fractions whose denominators are all multiples of the same number • Add and subtract fractions with the same denominator, and denominators that are multiples of the same number	Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number		 Multiply simple pairs of proper fractions, writing the answer in its simplest form Divide proper fractions by whole numbers Solve problems involving addition, subtraction, multiplication and division Associate a fraction with division and calculate decimal fraction equivalents 	Fraction of an amount – find the whole
	Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole Subtract two mixed numbers	Decimals	Decimals Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places Solve problems which require answers to be rounded to specified degrees of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Multiply 1-digit numbers with up to 2 decimal places by whole numbers Use written division methods in cases where the answer has up to 2 decimal places Solve problems involving addition, subtraction, multiplication and division	Decimals Place value within 1 Place value - integers and decimals Round decimals Add and subtract decimals Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers Multiply and divide decimals in context

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					Measurement	Measurement Calva much laws invalid as	Measurement
					(Converting Units)	Solve problems involving the coloulation and	Metric measures
						the calculation and	Convert metric measures
						conversion of units of measure, using decimal	Calculate with metric
						notation up to 3 decimal	measures
						places where appropriate	Miles and kilometres
						Use, read, write and	Imperial measures
						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	
						3 decimal places	
			What children will	What children will be		What children will	What children will be
			learn:	able to do:		learn:	able to do:
		Multiplication and	Multiplication and	Multiplication and	Fractions, Decimals and	Fractions, Decimals and	Fractions, Decimals and
		<u>Division B</u>	<u>Division</u>	<u>Division</u>	<u>Percentages</u>	<u>Percentages</u>	<u>Percentages</u>
			Multiply numbers up to	Multiply up to a 4-digit		Use common factors to	Decimal and fraction
			four digits by a 1- or 2- digit number using a	number by a 1-digit		simplify fractions; use	equivalents
			formal written method,	number		common multiples to express fractions in the	Fractions as division
			including long	 Multiply a 2-digit number by a 2-digit number (area 		same denomination	Understand percentages
			multiplication for 2-digit	model)		Associate a fraction with	Fractions to percentagesEquivalent fractions,
			numbers	Multiply a 2-digit number		division and calculate	decimals and percentages
			Divide up to four digits by	by a 2-digit number		decimal fraction	Order fractions, decimals
Spring	HT3		a 1-digit number using the formal written	Multiply a 3-digit number		equivalents for a simple	and percentages
			method of short division	by a 2-digit number		fraction	Percentage of an amount -
			and interpret remainders	Multiply a 4-digit number		Recall and use	one step
			appropriately for the	by a 2-digit number		equivalences between	Percentage of an amount
			context	Solve problems with		simple fractions, decimals	– multi-step
			 Solve problems involving 	multiplication		and percentages,	Percentages – missing
			multiplication and	Short division		including in different	values
			division, including using	Divide a 4-digit number		contexts	
			their knowledge of factors and multiples,	by a 1-digit number		Compare and order	
			squares and cubes	Divide with remainders		fractions, including	
			-4.0.00 00 00000	Efficient division		fractions >1	
						Solve problems involving	
						the calculation of	
						I.	

1		1				
			Solve problems with		percentages and the use	
			multiplication and		of percentages for	
			division		comparison	
	<u>Fractions B</u>	<u>Fractions</u>	<u>Fractions</u>	<u>Measurement</u>	<u>Measurement</u>	<u>Measurement</u>
		 Multiply proper fractions 	Multiply a fraction by an	(Perimeter, Area and	 Recognise that shapes 	• Shapes – same area
		and mixed numbers by	integer	Volume)	with the same areas can	Area and perimeter
		whole numbers,	Multiply a non-unit		have different perimeters	Area of a triangle –
		supported by materials	fraction by an integer		and vice versa	counting squares
		and diagrams	Multiply a mixed number		Recognise when it is	Area of a right-angled
		Solve problems involving	by an integer		possible to use formulae	triangle
		increasingly harder	Calculate a fraction of a		for area and volume of	Area of any triangle
		fractions to calculate quantities, and fractions	quantity		shapes	Area of a parallelogram
		to divide quantities,	Fraction of an amount		Calculate the area of	Volume – counting cubes
		including non-unit	Find the whole		parallelograms and	Volume of a cuboid
		fractions where the	Use fractions as operators		triangles	- Volume of a capola
		answer is a whole	• Ose fractions as operators		Calculate, estimate and	
		number			compare volume of cubes	
					and cuboids using	
	Desimals and Demonstrate	Desimals and Bancautages	Desimals and Descentages		standard units, including	
	Decimals and Percentages	Decimals and Percentages	Decimals and Percentages		cubic centimetres (cm3)	
		Read, write, order and	Decimals up to 2dp		and cubic metres (m3),	
		compare numbers with up to 3 decimal places	Equivalent fractions and		and extending to other	
		Read and write decimal	decimals (tenths)		units	
		numbers as fractions	Equivalent fractions and		units	
		Identify, name and write	decimals (hundredths)	<u>Statistics</u>	Statistics	Statistics
		equivalent fractions of a	Equivalent fractions and	<u>statistics</u>	Interpret and construct	
		given fraction,	decimals		pie charts and line graphs	• Line graphs
		represented visually,	Thousandths as fractions			Dual bar graphs
		including tenths and			and use these to solve	Read and interpret pie
		hundredths			problems	charts
		Solve problems which			Calculate and interpret	Pie charts with
		require knowing			the mean as an average	percentages
		percentage and decimal				Draw pie charts
		equivalents of 1/2 , 1/4 ,				The mean
		1/5 , 2/5 , 4/5 and those				
		fractions with a				
		denominator of a				
		multiple of 10 or 25				
		Recognise and use				
		thousandths and relate				
		them to tenths,				
		hundredths and decimal				
		equivalents				
		1				

		What children will	What children will be		What children will	What children will be
		learn:	able to do:		learn:	able to do:
	Decimals and Percentages	Decimals and Percentages	Decimals and Percentages	<u>Ratio</u>	Ratio	<u>Ratio</u>
		Recognise and use	Thousandths as decimals		Solve problems involving	Add or multiply?
		thousandths and relate	Thousandths on a place		the relative sizes of two	Use ratio language
		them to tenths,	value chart		quantities where missing	Introduction to the ratio
		hundredths and decimal	Order and compare		values can be found by	symbol
		equivalents	decimals (same number		using integer	Ratio and fractions
		Read, write, order and	of decimal places)		multiplication and division	Scale drawing
		compare numbers with	Order and compare any		facts	Use scale factors
		up to 3 decimal places	decimals with up to 3dp		Solve problems involving	• Similar shapes
		Solve problems involving	Round to the nearest		unequal sharing and	Ratio problems
		numbers up to 3 decimal	whole number		grouping using knowledge	Proportion problems
		places	Round to 1dp		of fractions and multiples	• Recipes
		Round decimals with 2	Understand percentages		Solve problems involving	Recipes
		decimal places to the	Percentages as fractions		similar shapes where the	
		nearest whole number	Percentages as decimals		scale factor is known or	
		and to 1 decimal place	Equivalent FDP		can be found	
		Recognise the per cent	- Equivalent 1 Bi			
		symbol (%) and		<u>Algebra</u>	<u>Algebra</u>	<u>Algebra</u>
		understand that per cent			 Use simple formulae 	• 1-step function machines
HT4		relates to "number of			 Generate and describe 	• 2-step function machines
		parts per 100", and write			linear number sequences	• Form expressions
		percentages as a fraction			 Express missing number 	• Substitution
		with denominator 100,			problems algebraically	Formulae
		and as a decimal fraction			• Find pairs of numbers that	Form equations
		Solve problems which			satisfy an equation with 2	Solve 1-step equations
		require knowing			unknowns	Solve 2-step equations
		percentage and decimal			 Enumerate possibilities of 	 Find pairs of values
		equivalents of 1/2 , 1/4 ,			combinations of 2	Solve problems with two
		1/5 , 2/5 , 4/5 and those			variables	unknowns
		fractions with a				
		denominator of a		<u>Geometry</u>	Geometry	Geometry
		multiple of 10 or 25		(Position and Direction)	• Describe positions on the	The first quadrant
					full coordinate grid (all	Read and plot points in
	Measurement	<u>Measurement</u>	Measurement		four quadrants)	four quadrants
	(Perimeter and Area)	Measure and calculate	Perimeter of rectangles		Draw and translate simple	Solve problems with
		the perimeter of	Perimeter of rectilinear		shapes on the coordinate	coordinates
		composite rectilinear	shapes		plane, and reflect them in	Translations
		shapes in centimetres	Perimeter of polygons		the axes	Reflections
		and metres	Area of rectangles			
		Calculate and compare	Area of compound shapes			
		the area of rectangles	Estimate area			

			(including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes				
		<u>Statistics</u>	Statistics • Solve comparison, sum and difference problems using information presented in a line graph • Complete, read and interpret information in tables, including timetables	Statistics Draw line graphs Read and interpret line graphs Read and interpret tables			
		<u>Statistics</u>	What children will learn: Statistics Complete, read and interpret information in tables, including timetables	What children will be able to do: Statistics Read and interpret tables Two-way tables Read and interpret timetables	<u>Geometry</u> (Properties of Shape)	What children will learn: Geometry Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	What children will be able to do: Geometry Measure and classify angles Calculate angles Vertically opposite angles
Summer	HT5	Geometry (Properties of Shape)	• 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 1 whole turn (total 360°); angles at a point on a straight line and half a turn (total 180°) • Use the properties of rectangles to deduce related facts and find missing lengths and angles	Geometry Understand and use degrees Classify angles Estimate angles Measure angles up to 180° Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line Lengths and angles in shapes Regular and irregular polygons 3D shapes		 find missing angles Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Draw 2-D shapes using given dimensions and angles 	 Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in quadrilaterals Angles in polygons Circles Draw shapes accurately Nets of 3D shapes

		Distinguish between regular and irregular polygons based on reasoning about equal sides and angles 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 (Position and Direction)	Geometry Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	Geometry Read and plot coordinates Problem solving with coordinates Translation Translation with coordinates Lines of symmetry Reflection in horizontal and vertical lines		
		What children will	What children will be	What children will	What children will be
		learn:	able to do:	learn:	able to do:
НТ6	<u>Decimals</u>	Decimals Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Solve problems involving number up to 3 decimal places Read, write, order and compare numbers with up to 3 decimal places Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	Decimals Use known facts to add and subtract decimals within 1 Complements to 1 Add and subtract decimals across 1 Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Add decimals with different numbers of	Place Value Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve the above	Place Value Numbers to 1 million Numbers to 10 million Read and write numbers to 10 million Powers of 10 Number line to 10 million Compare and order any integers Round any integer Negative numbers
			decimal places • Subtract decimals with different numbers of decimal places	Addition, Subtraction, Multiplication and Division Multiply multi-digit numbers up to four digits by a 2-digit whole number	Addition, Subtraction, Multiplication and Division Add and subtract integers Common factors Common multiples

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		 Efficient strategies for 	using the formal written	 Rules of divisibility
		adding and subtracting	method of long	Primes to 100
		decimals	multiplication	 Square and cube numbers
		 Decimal sequences 	 Divide numbers up to four 	Multiply up to a 4-digit
		Multiply by 10, 100 and	digits by a 2-digit number	number by a 2-digit
		1,000	using the formal written	number
		• Divide by 10, 100 and	method of short division	 Solve problems with
		1,000	where appropriate,	multiplication
		Multiply and divide	interpreting remainders	Short division
		decimals – missing values	according to the context	Division using factors
			 Divide numbers up to four 	Introduction to long
Negative Numbers	Negative Numbers	Negative Numbers	digits by a 2-digit whole	division
	 Interpret negative 	 Understand negative 	number using the formal	Long division with
	numbers in context,	numbers	written method of long	remainders
	count forwards and	• Count through zero in 1s	division, and interpret	Solve problems with
	backwards with positive	 Count through zero in 	remainders as whole	division
	and negative whole	multiples	number remainders,	Solve multi-step problems
	numbers, including through zero	Compare and order	fractions, or by rounding,	Order of operations
	through zero	negative numbers	as appropriate for the	Mental calculations and
		Find the difference	context	estimation
			 Perform mental 	Reason from known facts
<u>Measurement</u>	<u>Measurement</u>	<u>Measurement</u>	calculations, including	Reason from known facts
(Converting Units)	Convert between	 Kilograms and kilometres 	with mixed operations	
	different units of metric	 Millimetres and millilitres 	and large numbers	
	measure [for example,	 Convert units of length 	 Identify common factors, 	
	kilometre and metre; centimetre and metre;	Convert between metric	common multiples and	
	centimetre and metre;	and imperial units	prime numbers	
	millimetre; gram and	Convert units of time	 Use their knowledge of 	
	kilogram; litre and	Calculate with timetables	the order of operations to	
	millilitre]		carry out calculations	
	Understand and use		involving the four	
	approximate		operations	
	equivalences between		 Solve addition and 	
	metric units and common		subtraction multi-step	
	imperial units such as		problems in contexts,	
	inches, pounds and pints		deciding which operations	
	Solve problems involving		and methods to use and	
	converting between units		why	
	of time		 Solve problems involving 	
			addition, subtraction,	
			multiplication and division	
			Use estimation to check	
			answers to calculations and	

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<u>Measurement</u>	<u>Measurement</u>	<u>Measurement</u>	determine, in the context of	
(Volume)	Estimate volume [for	 Cubic centimetres 	a problem, an appropriate	
	example, using 1 cm ³	 Compare volume 	degree of accuracy	
	blocks to build cuboids	Estimate volume		
	(including cubes)] and	 Estimate capacity 	Fractions, Decimals and	Fractions, Decimals and
	capacity		<u>Percentages</u>	<u>Percentages</u>
	Estimate volume and		Use common factors to	Decimal and fraction
	capacity [for example,		simplify fractions; use	equivalents
	using water]		common multiples to	Fractions as division
			express fractions in the	Understand percentages
			same denomination	Fractions to percentages
			Associate a fraction with	Equivalent fractions,
			division and calculate	decimals and percentages
			decimal fraction	Order fractions, decimals
			equivalents for a simple	and percentages
			fraction	Percentage of an amount -
			Recall and use	one step
			eguivalences between	'
			simple fractions, decimals	Percentage of an amount
			and percentages,	– multi-step
			including in different	Percentages – missing
			contexts	values
			Compare and order	
			fractions, including	
			,	
			fractions >1	
			Solve problems involving	
			the calculation of	
			percentages and the use	
			of percentages for	
			comparison	