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	Autumn Term 1			
	Year 1	Year 2	Year 3	Year 4
Number Sense	Number, place value and rounding count to and across 100, forwards and backwards, beginning with 0 or 1 count, read and write numbers to 100 in numerals given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Measurement compare, describe and solve practical problems for: - lengths and heights [for example, long / short, longer / shorter, tall / short, double / half] - mass or weight [for example, heavy / light, heavier than, lighter than] - capacity / volume [for example, full / empty, more than, less than, half, half full, quarter] recognise and use language relating to dates, including days of the week, weeks, months and years.	Number, place value and rounding	Number and place value count from 0 in multiples of 100; find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words solve number problems and practical problems involving these ideas	Number and place value
Additive Reasoning	Number and place value given a number, identify one more and one less Addition and subtraction represent and use number bonds and related subtraction facts within 20 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as such as 7 = □ -9	Number and place value count in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) use place value and number facts to solve problems	Addition and subtraction add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds add and subtract numbers with up to three digits 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	Addition and subtraction add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Measurement

- 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 week, weeks, months and years.

Addition and subtraction

- 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 methods
- recall and use addition and subtraction facts to 20 fluently
- add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
 - a two-digit number and ones
 - a two-digit number and tens
 - adding three one-digit numbers

Measurement

- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- ask and answer questions about totaling and comparing categorical data

Measurement

- measure, compare, add and subtract: lengths (m / cm /mm); mass (kg / g); volume / capacity (I / ml)
- add and subtract amounts of money to give change, using both £ and p in practical contexts

Statistics

- interpret and present data using bar charts, pictograms and tables
- solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

Measurement

 estimate, compare and calculate different measures, including money in pounds and pence

Statistics

- interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
- solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

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	Autumn Term 2			
	Year 1	Year 2	Year 3	Year 4
Geometric Reasoning (Y1/2) Multiplicative Reasoning (Y3/4)	Geometry: properties of shapes recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] Geometry: position and direction describe position, direction and movement.	Geometry: properties of shapes 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, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D and 3-D shapes and everyday objects Geometry: position and direction order and arrange combinations of mathematical objects in patterns and sequences	Number and place value count from 0 in multiples of 4, 8, 50 and 100 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 multiplication tables that they know 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.	Number and place value count in multiples of 6, 7, 9, 25 and 1000 Multiplication and divisions recall multiplication and division facts for multiplication tables up to 12 × 12 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 recognise and use factor pairs and commutativity in mental calculations solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects.
Number Sense (Y1/2) Geometric Reasoning (Y3/4)	Number and place value count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Measurement compare, describe and solve practical problems for: -lengths and heights [for example, long/short, longer/ shorter, tall/short, double/half] - mass or weight [for example, heavy/light, heavier than, lighter than]	Number and place value count in steps of 2 and 5 from 0 and in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals use place value and number facts to solve problems	Geometry: properties of shapes draw 2-D shapes, and make 3-D shapes using modeling materials; 3-D shapes in different orientations and describe them Geometry: position and direction recognise that angles are a property of shape or adescription of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	Geometry: properties of shape compare and classify geometric shapes, including quadrilaterals and triangles, based or their properties and sizes identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations.

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	 capacity/volume [for example, full/empty, 	Measurement		,
	more than, less than, half, half full,	 compare and order lengths, mass, 		
	quarter]- time [for example, quicker,	volume / capacity and		
	slower, earlier, later] recognise and use	record the results using >, < and =		
	language relating to dates, including days of the week, weeks, months and years	compare and sequence intervals of time		
	·	Statistics		
		 ask and answer simple questions by 		
		counting the number of objects in each		
		category and sorting the categories by		
		quantity		
Additive	Number and place value	Number and place value	Number and place value	Number and place value
Reasoning	 count to and across 100, forwards and 	 count in tens from any number, forward 	 count from 0 in multiples of 4, 8, 50 and 100; 	 count in multiples of 1000
(Y1/2)	backwards,	and backward	find 10 or 100 more or less than a given	 find 1000 more or less than a given number
	 beginning with 0 or 1, or from any given 	 recognise the place value of each digit 	number	 count backwards through zero to include
	number	in a two-digit number (tens, ones)	recognise the place value of each digit in a	negative numbers
Number	given a number, identify one more and one	use place value and number facts to	three-digit number (hundreds, tens, ones)	 recognise the place value of each digit in a
Sense	less	solve problems	• compare and order numbers up to 1000	four-digit number (thousands, hundreds, tens,
(Y3/4)	Addition and subtraction	Addition and subtraction	• identify, represent and estimate numbers	and ones)
(73/4)	 represent and use number bonds and 		using different representations	order and compare numbers beyond 1000 identify represent and action to purple and
	related subtraction facts within 20	 solve problems with addition and subtraction: 	 read and write numbers up to 1000 in numerals and in words 	 identify, represent and estimate numbers using different representations
	solve one-step problems that involve addition	- using concrete objects and pictorial	 solve number problems and practical problems 	 round any number to the nearest 10, 100 or
	and subtraction, using concrete objects and	representations,	involving these ideas	1000
	pictorial representations, and missing number	including those involving numbers,	involving these ideas	 solve number and practical problems that
	problems such as7 = n −9.	quantities and	Measurement	involve all of the above and with increasingly
		measures	tell and write the time from an analogue clock,	large positive numbers
		- applying their increasing knowledge	including using Roman numerals from I to XII	 read Roman numerals to 100 (I to C) and know
		of mental	and 12-hour and 24-hour clocks	that, over time, the numeral system changed
		methods	measure, compare, add and subtract: lengths	to include the concept of zero and place value.
		recall and use addition and subtraction	(m / cm /mm); mass (kg / g); volume / capacity	
		facts to 20 fluently, and derive and use	(1 / ml)	
		related facts up to 100		
		 add and subtract numbers using 	Fractions	
		concrete objects, pictorial	 count up and down in tenths, recognise that 	
		representations, and mentally, including:	tenths arise from dividing an object into 10	
		 a two-digit number and ones 	equal parts and in dividing one-digit numbers	
		 a two-digit number and tens 	or quantities by 10.	
		 adding three one-digit numbers 		
		 show that addition of two numbers can 		
		be done in any		
		order (commutative) and subtraction of		
		one number from		
		another cannot		

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 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems 	Elleve
Measurement recognise and use symbols for pounds (£) and pence (p): combine amounts to make a particular value find different combinations of coins to equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Statistics ask and answer questions about totaling and comparing categorical data.	



	Term Spring 1			
	Year 1	Year 2	Year 3	Year 4
Number Sense (Y1/2) Additive Reasoning (Year 3/4)	Number and place value count to and across 100, 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 twos and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Measurement recognise and know the value of different denominations of coins and notes.	Number and place value count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward Multiplication and division recognise odd and even numbers Statistics interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	Addition and subtraction add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens athree-digit number and hundreds add and subtract numbers with up to three digits 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 Measurement measure, compare, add and subtract: lengths (m / cm / mm); mass (kg / g); volume / capacity (l / ml) add and subtract amounts of money to give change, using both £ and p in practical contexts Statistics interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	Addition and subtraction add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Measurement estimate, compare and calculate different measures, including money in pounds and pence Statistics interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

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Number Sense (Y1/2) Multiplicative Reasoning (Y3/4)	Number and place value count, read and write numbers to 100 in numerals; count in multiples of twos and tens Multiplication and division 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 Measurement recognise and know the value of different denominations of coins and notes.	Number and place value count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward 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 two numbers can be done in any order (commutative) and division of one 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 Measurement recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins to equal the same amounts of money tell and write the time to five minutes know the number of minutes in an hour and the number of hours in a day.	Number and place value identify, represent and estimate numbers using different representations Fractions count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] compare and order unit fractions and fractions with the same denominator solve problems that involve all of the above.	Fractions (including decimals) count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4, 1/2, 3/4 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places Measurement convert between different units of measure [for example, kilometre to metre].



	Term Spring 2			
	Year 1	Year 2	Year 3	Year 4
Number Sense (Y1/2) Multiplicative Reasoning (Year 3/4)	Number and place value count to and across 100, 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 twos and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Measurement measure and begin to record the following: lengths and heights mass/weight	Number and place value count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals use place value and number facts to solve problems Measurement choose and use appropriate standard	Number and place value count from 0 in multiples of 4, 8, 50 and 100 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 multiplication tables that they know, including for two-digit numbers times one-digit numbers 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	Number and place value count in multiples of 6, 7, 9, 25 and 1000 Multiplication and division recall multiplication and division facts for multiplication tables up to 12 × 12 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 recognise and use factor pairs and commutativity in mental calculations solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects
	 capacity and volume recognise and know the value of different denominations of coins and notes. 	units to estimate and measure length / height in any direction (m / cm); mass (kg / g); temperature (°C); capacity (litres / ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume / capacity and record the results using >, < and = compare and sequence intervals of time.	Fractions count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators solve problems that involve all of the above.	Fractions (including decimals) solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

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				Measurement Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
Additive	Number and place value	Number and place value	Geometry: properties of shapes	Geometry: properties of shapes
Reasoning Geometric Reasoning	 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number given a number, identify one more and one less 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 20 add and subtract one-digit and two-digit 	 count in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) use place value and number facts to solve problems Addition and subtraction solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, 	 draw 2-D shapes, and make 3-D shapes using modeling materials; recognise 3-D shapes in different orientations and describe them recognise that angles are a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs 	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Geometry: position and direction describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left / right and up / down plot specified points and draw sides to complete a given polygon.
	numbers to 20, including zero solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =9	quantities and measures - applying their increasing knowledge of mental methods • recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • add and subtract numbers using	of perpendicular and parallel lines.	
	Measurement 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 week, weeks, months and years.	concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between		

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		check calculations and solve missing		1 90
		number problems		
		number problems		
		Measurement		
		• recognise and use symbols for pounds		
		(£) and pence (p); combine amounts to		
		make a particular value		
		 find different combinations of coins to 		
		equal the same		
		amounts of money		
		 solve simple problems in a practical 		
		context involving		
		addition and subtraction of money of		
		the same unit.		
		including giving change		
		Statistics		
		 ask and answer questions about totalling 		
		and comparing		
		categorical data.		
Geometric	Geometry: properties of shapes	Geometry: properties of shape	Number and place value	Number and place value
Reasoning	 recognise and name common 2-D and 3-D shapes, 	 identify and describe the properties of 2-D shapes, including the number of 	 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 	 count in multiples of 1000 find 1000 more or less than a given number
	including:	sides and line symmetry in a vertical line	100 more or less than a given number	 count backwards through zero to include
Number	- 2-D shapes [for example, rectangles	 identify and describe the properties of 	 recognise the place value of each digit in a 	negative numbers
Sense	(including	3-D shapes.	three-digit	 recognise the place value of each digit in a
	squares), circles and triangles]	including the number of edges, vertices	number (hundreds, tens, ones)	four-digit
	- 3-D shapes [for example, cuboids	and faces	 compare and order numbers up to 1000 	number (thousands, hundreds, tens, and ones)
	(including cubes),	 identify 2-D shapes on the surface of 	 identify, represent and estimate numbers 	 order and compare numbers beyond 1000
	pyramids and spheres]	3-D shapes, [for	using different	identify, represent and estimate numbers
	Geometry: position and direction	example, a circle on a cylinder and a	representations	using different
	 describe position, direction and movement. 	triangle on a pyramid]	• read and write numbers up to 1000 in numerals	representations
		 compare and sort common 2-D and 3-D 	and in words	 round any number to the nearest 10, 100 or
		shapes and	 solve number problems and practical problems 	1000
		everyday objects	involving	 solve number and practical problems that
			these ideas	involve all of the above and with increasingly
		Geometry: position and direction		large positive numbers
		 order and arrange combinations of 	Measurement	
		mathematical objects	• tell and write the time from an analogue clock,	Measurement
		in patterns and sequences	including	convert between different units of measure
		use mathematical vocabulary to	using Roman numerals from I to XII, and 12-	[for example,
		describe position,	hour and	hour to minute]
		direction and movement.	24-hour clocks	

estimate and read time with increasing • read, write and convert time between analogue flieve
accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m. / p.m., 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, [for example, to calculate the time taken by particular events or tasks] Statistics • interpret and present data using bar charts, pictograms and tables. • rand digital 12- and 24-hour clocks • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days Statistics • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days Statistics • solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and digital 12- and 24-hour clocks • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days Statistics • solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and digital 12- and 24-hour clocks



		Term Sur	nmer 1	
	Year 1	Year 2	Year 3	Year 4
Number Sense (Y1/2) Additive Reasoning (Year 3/4)	Number and place value count to and across 100, 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 twos, fives and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least read and write numbers from 1 to 20 in numerals and words Measurement measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) recognise and know the value of different denominations of coins and notes	Number and place value count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals and in words use place value and number facts to solve problems Measurement choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg / g); temperature (°C); capacity (litres / ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume / capacity und record the results using >, < and = compare and sequence intervals of time	Addition and subtraction add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens at three-digit number and hundreds add and subtract numbers with up to three 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 value, and more complex addition and subtraction Measurement measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI) add and subtract amounts of money to give change, using both £ and p in practical contexts record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m. / p.m., 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, [for example, to calculate the time taken by particular events or tasks]	Addition and subtraction add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Statistics interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs Fractions (including decimals) solve simple measure and money problems involving fractions and decimals to two decimal places
			Statistics	

	 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. 	Measurement • estimate, compare and calculate different measures, including money in pounds and pence
Additive reasoning (Y1/2) • count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number • given a number, identify one more and one less Number Sense (Y3/4) • 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 20 • add and subtract one-digit and two-digit numbers to 20, including zero • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =	Number and place value count in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) use place value and number facts to solve problems Addition and subtraction 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 methods and written methods recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and ones a two-digit numbers adding three one-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to	Number and place value identify, represent and estimate numbers using different representations Fractions count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and dividing one-digit numbers or quantities by 10 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 add and subtract fractions with the same denominator within one whole [for example, ⁵ √ 7 + ¹ √ 7 = ⁶ √ 7] compare and order unit fractions and fractions with the same denominator. solve problems that involve all of the above.	Fractions (including decimals) count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to ½ 4, ½ 2, ¾ 4. find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places Measurement convert between different units of measure [for example, kilometre to metre).

check calculations and solve missing number problems	T C C C C C C C C C C C C C C C C C C C	elieve poi
Statistics • ask and answer questions about totaling and compare categorical data		

		Term Sur	nmer 2	
	Year 1	Year 2	Year 3	Year 4
Multiplicative Reasoning	Number and place value count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens Multiplication and division solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support	Number and place value count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward Multiplication and division recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Number and place value count from 0 in multiples of 4, 8, 50 and 100 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 multiplication tables that they know, including for two-digit numbers times one-digit	Number and place value count in multiples of 6, 7, 9, 25 and 1000 Multiplication and division recall multiplication and division facts for multiplication tables up to 12 × 12 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
	of the teacher Fractions recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one	 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication and division, using materials, arrays, repeated 	numbers, using mental and progressing to formal written methods solve problems, including missing number problems, involving multiplication and division; solve positive integer scaling problems and correspondence problems in which n objects are connected to m objects. Fractions count up and down in tenths; recognise that tenths arise from dividing an object into 10	 recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects.
	of four equal parts of an object, shape or quantity Measurement recognise and know the value of different denominations of coins and notes	addition, mental methods, and multiplication and division facts, including problems in contexts	equal parts and in dividin one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators solve problems that involve all of the above.	Fractions (including decimals) solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Fractions • recognise, find, name and write fractions \(^1/_3\), \(^1/_4\), \(^2/_4\) and \(^3/_4\) of a length, shape, set of objects or quantity • write simple fractions for example \(^1/_2\) of 6 = 3 and recognise the equivalence of \(^2/_4\) and \(^1/_2\).	Measurement know the number of seconds in a minute and the number of days in each month, year and leap year.	Measurement solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
		Measurement tell and write the time to five minutes, including quarter past / to the hour and		

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Geometric Reasoning

Fractions

quantity

quantity

shapes.

including:

triangles]

spheres]

Geometry: position and direction

and three-quarter turns

• recognise, find and name a half as one of

two equal parts of an object, shape or

• recognise, find and name a quarter as one

recognise and name common 2-D and 3-D

- 2-D shapes [for example, rectangles

(including squares), circles and

- 3-D shapes [for example, cuboids

(including cubes), pyramids and

describe position, direction and movement, including whole, half, quarter

Geometry: properties of shapes

of four equal parts of an object, shape or

- draw the hands on a clock face to show these times
- know the number of minutes in an hour and the number of hours in a day.

Geometry: properties of shape

- 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, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects

Geometry: position and direction

- order and arrange combinations of mathematical objects in patterns and sequences
- use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and threequarter turns (clockwise and anticlockwise)

Fractions

• recognise, find, name and write fractions $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ of a length, shape, set of objects or quantity write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ 2.

Geometry: properties of shape

- recognise that angles are a property of shape or a description of a turn
- identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
- identify horizontal and vertical lines and pairs of perpendicular and parallel lines
- measure the perimeter of simple 2-D shapes.

Geometry: properties of shapes

- compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- identify acute and obtuse angles and compare and order
- angles up to two right angles by size
 identify lines of symmetry in 2-D shapes
- presented in different orientationscomplete a simple symmetric figure with
- complete a simple symmetric figure with respect to a specific line of symmetry

Measurement

 measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

find the area of rectilinear shapes by counting squares