National Curriculum	Торіс	Term	Skills/Small steps
<ul> <li>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>count, read and write numbers to 100 in numerals</li> <li>count in multiples of twos, fives and tens</li> <li>given a number, identify one more and one less</li> <li>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</li> <li>read and write numbers from 1 to 20 in numerals and words.</li> </ul>	Number and place value	Autumn Autumn Spring Summer	<ul> <li>Sort objects</li> <li>Count objects</li> <li>Represent objects</li> <li>Count, read and write forwards from nay number 0 to 100</li> <li>Count, read and write backwards from any number 0 – 100</li> <li>Count one more and one less</li> <li>One – to -one correspondence to start to compare groups</li> <li>Compare groups using language such as equal, more, greater, less and fewer</li> <li>Introduce &gt;, &lt; and =</li> <li>Compare numbers</li> <li>Ordinal numbers (1<sup>st</sup>, 2<sup>nd</sup>)</li> <li>Number line</li> <li>Count forwards and backwards and write numbers to 20 in numerals and words</li> <li>Numbers from 11 to 20</li> <li>Tens and ones</li> <li>Count one more and one less</li> <li>Compare groups of objects</li> <li>Compare numbers</li> <li>Order numbers</li> <li>Order numbers</li> <li>Numbers to 50</li> <li>Tens and one less r</li> <li>Compare objects to 50</li> <li>Order numbers to 50</li> <li>Order numbers to 50</li> <li>Order numbers to 50</li> <li>Compare numbers to 50</li></ul>
<ul> <li>read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs</li> <li>represent and use number bonds and related subtraction facts within 20</li> <li>add and subtract one-digit and two-digit numbers to 20, including 0</li> <li>solve one-step problems that involve addition and subtraction, using concrete objects and nictorial representations, and missing number problems such as 7 = 2 = 9</li> </ul>	Addition and subtraction	Autumn	<ul> <li>Part whole model</li> <li>Addition symbol</li> <li>Fact families – addition facts</li> <li>Find number bonds within 10</li> <li>Number bonds to 10</li> <li>Compare number bonds</li> </ul>

				<ul> <li>Addition – adding together</li> <li>Addition – adding more</li> <li>Finding a part</li> <li>Subtraction – taking away, how many left? Crossing out</li> <li>Subtraction taking away, how many left? Introducing the symbol</li> <li>Subtraction – finding a part, breaking apart</li> <li>Fact families – 8 facts</li> <li>Subtraction – counting back</li> </ul>
			Spring	<ul> <li>Adding by counting on</li> <li>Find and make number bonds</li> <li>Add by making 10</li> <li>Subtraction – not crossing 10</li> <li>Related facts</li> <li>Compare number sentences</li> </ul>
•	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	Multiplication and Division	Spring	<ul> <li>Count in 2s</li> <li>Count in 5s</li> <li>Count in 10s</li> <li>Make equal groups</li> <li>Add equal groups</li> <li>Make arrays</li> <li>Make double</li> <li>Make equal groups – groupings</li> <li>Make equal groups – sharing</li> </ul>
•	recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity	Fractions	Spring	<ul> <li>Finding half</li> <li>Finding a quarter</li> </ul>
•	compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] mass/weight [for example, heavy/light, heavier than, lighter than] capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later]	Measurement	Spring	<ul> <li>Compare lengths and height</li> <li>Measure length</li> <li>Measure mass</li> <li>Compare mass</li> <li>Measure capacity</li> <li>Compare capacity</li> </ul>
• • • •	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 sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]		Summer	<ul> <li>Recognising coins</li> <li>Recognising notes</li> <li>Counting in coins</li> <li>Before and after</li> <li>Dates</li> <li>Time to the hour</li> <li>Time to the half hour</li> <li>Writing time</li> </ul>

•	recognise and use language relating to dates, including days of the week, 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			•	Comparing time
•	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 – shape	Autumn	• • •	Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 3-D and 2-D shapes
•	describe position, direction and movement, including whole, half, quarter and three- quarter turns	Geometry – position and direction	Summer	•	Describe position Describe turns

'ear 2				
National Curriculum	Торіс	Term	Skills/Small steps	
<ul> <li>count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward</li> <li>recognise the place value of each digit in a two-digit number (10s, 1s)</li> <li>identify, represent and estimate numbers using different representations, including the number line</li> <li>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</li> <li>read and write numbers to at least 100 in numerals and in words</li> <li>use place value and number facts to solve problems</li> </ul>	Number and Place Value	Autumn	<ul> <li>Counting forwards and backwards within 20 recap</li> <li>Tens and ones within 20 recap</li> <li>Counting forwards and backwards within 50 recap</li> <li>Tens and ones within 50 recap</li> <li>Compare numbers to 50 recap</li> <li>Count objects to 100 and read and write numbers in numerals and words</li> <li>Represent numbers to 100</li> <li>Tens and ones with a part-whole model</li> <li>Tens and ones using addition</li> <li>Use a place value chart</li> <li>Compare numbers</li> <li>Order objects and numbers</li> <li>Counting in 2s,5s, 10s recap</li> <li>Count in 3s</li> </ul>	
<ul> <li>solve problems with addition and subtraction:</li> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods</li> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</li> <li>a two-digit number and 1s</li> </ul>	Addition and subtraction	Autumn	<ul> <li>Add by making 10 recap</li> <li>Subtraction by crossing 10 recap</li> <li>Subtract a 2-digit number from a 2-digit number – not crossing ten</li> <li>Subtract a 2-digit number from a 2-digit number – crossing tens</li> <li>Find and make number bonds recap</li> <li>Bonds to 100 – tens and ones</li> <li>Add three 1-digit numbers</li> </ul>	

٠	a two-digit number and 10s			
٠	2 two-digit numbers			
•	adding 3 one-digit numbers			
•	show that addition of 2 numbers can be done in any order (commutative) and			
	subtraction of 1 number from another cannot			
٠	recognise and use the inverse relationship between addition and subtraction and			
	use this to check calculations and solve missing number problems			
•	recall and use multiplication and division facts for the 2, 5 and 10 multiplication	Multiplication and	Autumn	Make qual groups recap
	tables, including recognising odd and even numbers	Division		Add equal groups recap
٠	calculate mathematical statements for multiplication and division within the			Make array recap
	multiplication tables and write them using the multiplication (×), division $(\div)$ and		Spring	Recognise equal groups
	equals (=) signs			Make equal groups
٠	show that multiplication of 2 numbers can be done in any order (commutative) and			Add equal groups
	division of 1 number by another cannot			<ul> <li>Multiplication sentences using the x symbol</li> </ul>
٠	solve problems involving multiplication and division, using materials, arrays,			<ul> <li>Multiplication sentences from pictures</li> </ul>
	repeated addition, mental methods, and multiplication and division facts, including			Use arrays
	problems in contexts			Make doubles recap
				2 times table
				• 5 times table
				10 times table
				Make equal groups – sharing
				Make equal groups – grouping
				Divide by 2
				Odd and even numbers
				Divide by 5
	1 1 0 3			Divide by 10
	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$	Fractions	Spring	Make equal groups
•	recognise, find, name and write fractions 3, 4, 4 and 4 of a length, shape, set of			Recognise a half
	objects or quantity			• Find a half
	$\frac{1}{2}$			Recognise a quarter
•	write simple fractions, for example $-4$ of 6 = 3 and recognise the equivalence			Find a quarter
	$\frac{2}{4}$ $\frac{1}{2}$			• Recognise a third
	of 4 and 2			Find a third
				Unit fractions
				INON-UNIT TRACTIONS     Foreitralance of 1/ and 2/4
				Equivalence of ½ and 2/4     Find three guarter
				Find three quarter     Count in fractions
	· · · · · · · · · · · · · · · · · · ·	Moscuromente	Aut	Count in fractions
•	choose and use appropriate standard units to estimate and measure length/height	ivieasurements	Autumn	Kecognise coins and notes recap
	in any unection (m/cm); mass (kg/g); temperature (°C); capacity (intres/mi) to the			Count money – pence     Count money – pence
-	nearest appropriate unit, using rulers, scales, thermometers and measuring vessels			Count money – pounds     Count money – pounds
•	compare and order lengths, mass, volume/capacity and record the results using >, <			Soloct money
	aliu –			Jereu money     Make the same amount
1		1	1	

		1	1	
•	recognise and use symbols for pounds (£) and pence (p); combine amounts to make			Compare
	a particular value			Find the total
•	find different combinations of coins that equal the same amounts of money			Find the difference
•	solve simple problems in a practical context involving addition and subtraction of			Find change
	money of the same unit, including giving change			Two-step word problems
•	compare and sequence intervals of time			
•	tell and write the time to five minutes, including quarter past/to the hour and 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		Summer	Compare lengths and heights recap
				Measure lengths (CM and M)
				Compare lengths
				Order lengths
				Four operations with lengths
				Telling the time to the hour recap
				Telling time to the half hour recap
				O'clock and half past
				Quarter past and Quarter to
				Telling time to 5 minutes
				Writing time
				Hours and days
				Find duration of time
				Compare duration of time
				Measure mass
				Compare mass
				Measure mass in grams
				Measure mass in kilograms
				Measure capacity and volume
				Measure capacity
				Compare volume
				Millilitres
				Litres
				Temperature
•	identify and describe the properties of 2-D shapes, including the number of sides,	Shape	Spring	<ul> <li>Recognise 2-D and 3-D shapes</li> </ul>
	and line symmetry in a vertical line			Count sides on 2-D shapes
•	identify and describe the properties of 3-D shapes, including the number of edges,			Count vertices on 2-D shape
	vertices and faces			Draw 2-D shapes
•	identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder			Lines of symmetry
	and a triangle on a pyramid]			Sort 2-D shapes
•	compare and sort common 2-D and 3-D shapes and everyday objects			Make patterns with 2-D shapes
				Count faces on 3-D shapes
				Count edges on 3-D shapes
				Count vertices on 3-D shapes
				Sort 3-D shapes
				<ul> <li>Make patterns with 3-D shapes</li> </ul>

<ul> <li>order and arrange combinations of mathematical objects in patterns and sequences</li> <li>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 three-quarter turns (clockwise and anti-clockwise)</li> </ul>	Position and direction	Summer	<ul> <li>Describe position</li> <li>Describe movement</li> <li>Describe turn</li> <li>Describe movement and turns</li> <li>Making patterns with shapes</li> </ul>
<ul> <li>interpret and construct simple pictograms, tally charts, block diagrams and tables</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>ask-and-answer questions about totalling and comparing categorical data</li> </ul>	Statistics	Spring	<ul> <li>Make a tally chart</li> <li>Draw pictograms</li> <li>Interpret pictograms</li> <li>Draw pictograms</li> <li>Interpret pictograms</li> <li>Block diagrams</li> </ul>

Year 3					
National Curriculum	Торіс	Term	Skills/Small steps		
<ul> <li>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li> <li>recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)</li> <li>compare and order numbers up to 1,000</li> <li>identify, represent and estimate numbers using different representations</li> <li>read and write numbers up to 1,000 in numerals and in words</li> <li>solve number problems and practical problems involving these ideas</li> </ul>	Number and Place Value	Autumn	<ul> <li>Represent numbers to 100 recap</li> <li>Tens and ones using addition recap</li> <li>Hundreds</li> <li>Represent numbers to 1000</li> <li>100s, 10s and 1s</li> <li>Number line to 1000</li> <li>Find 1, 10, 100 more or less than a given number</li> <li>Compare objects and numbers to 1000</li> <li>Order numbers</li> <li>Count in 50s</li> </ul>		
<ul> <li>add and subtract numbers mentally, including:</li> <li>a three-digit number and 1s</li> <li>a three-digit number and 10s</li> <li>a three-digit number and 100s</li> <li>add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction</li> <li>estimate the answer to a calculation and use inverse operations to check answers</li> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</li> </ul>	Addition and subtraction	Autumn	<ul> <li>Add and subtract multiples of 100</li> <li>Add and subtract 1s recap</li> <li>Add and subtract 3-D and 1-D numbers (not crossing tens)</li> <li>Add a 2-D and 1-D number (crossing 10)</li> <li>Add 3-D and 1-D (crossing 10)</li> <li>Subtract 1-D number from 2-D (crossing tens)</li> <li>Subtract a 1-D number from a 3-D (crossing 10)</li> <li>Add and subtract 3-D and 2-D numbers (not crossing 100)</li> <li>Add 3-D and 2-D numbers (crossing 100)</li> <li>Subtract a 2-D number from a 3-D number (crossing 100)</li> <li>Add and subtract 100s</li> <li>Patterns</li> <li>Add two 2-D numbers (crossing tens -add ones and add tens)</li> <li>Subtract a 2-D number from a 2-D number - crossing 10</li> </ul>		
• recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Multiplication and Division	Autumn	<ul> <li>Equal groups for multiplication</li> <li>Multiplication using the symbol recap</li> <li>Using arrays recap</li> </ul>		

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٠	write and calculate mathematical statements for multiplication and division using			•	2,5 and 10 times table recap
	the multiplication tables that they know, including for two-digit numbers times one-			•	Equal groups for sharing recap
	digit numbers, using mental and progressing to formal written methods			•	Make equal groups – grouping recap
•	solve problems, including missing number problems, involving multiplication and			•	Dived by 2, 5 and 10 recap
	division including positive integer scaling problems and correspondence problems			•	Multiple and divide by 3
	in which n objects are connected to m objects			•	3 times table
	in which h objects are connected to hi objects				Multiple and divide by 4
				•	
				• ·	4 times table
				•	Multiple and divide by 8
				•	8 times table
			Spring	•	3, 4 and 8 times tables
				•	Comparing stements
				•	Related calculations
				•	Mulplity 2-D by 1-D
				•	Divide 2-D by 1-D
				•	Scaling
•	count up and down in tenths: recognise that tenths arise from dividing an object	Fractions	Spring	•	Make equal parts
-	into 10 equal parts and in dividing one digit numbers or quantities by 10		(recan)		Recognise half and quarter
			(iccup)		Find half and quarter
•	recognise, find and write fractions of a discrete set of objects: unit fractions and			•	Find han and quarter
	non-unit fractions with small denominators			•	
•	recognise and use fractions as numbers: unit fractions and non-unit fractions with			•	Unit fractions
	small denominators			•	Non-unit fractions
٠	recognise and show, using diagrams, equivalent fractions with small denominators			•	Equivalence of ½ and 2/4
•	add and subtract fractions with the same denominator within one whole [for			•	Count in fractions
	5 1 6		Summer	•	Making the whole
	example, $\overline{7} + \overline{7} = \overline{7}$			•	Tenths
	compare and order unit fractions, and fractions with the same denominators			•	Count in tenths
	compare and order unit fractions, and fractions with the same denominators			•	Tenths as decimals
•	solve problems that involve all of the above			•	Fractions on a number line
				•	Fractions of a set of objects
				•	Equivalent fractions
				•	Compare fractions
				•	Order fractions
					Add and subtract fractions
<u> </u>		Measurement	Spring		Count monoy in nonco and nounds rocan
•	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);	weasurement	Shing	•	Count money in pence and pounds recap
	volume/capacity (I/mi)			•	convert pounds and pence
•	measure the perimeter of simple 2-D shapes			•	Add money
٠	add and subtract amounts of money to give change, using both ${\tt \pounds}$ and p in practical			•	Subtract money
	contexts			•	Give change
٠	tell and write the time from an analogue clock, including using Roman numerals			•	Measure length
	from I to XII, and 12-hour and 24-hour clocks			•	Equivalent lengths m and cm mm and cm
•	estimate and read time with increasing accuracy to the nearest minute; record and			•	Compare lengths recap
	compare time in terms of seconds, minutes and hours: use vocabulary such as			•	Add lengths
	o'clock, am/pm, morning, afternoon, noon and midnight			•	Subtract lengths
1				•	Measure perimeter

•	know the number of seconds in a minute and the number of days in each month,			
	year and leap year		Summer	O'clock and half past recap
•	compare durations of events [for example, to calculate the time taken by particular			Quarter past and quarter to recap
	events or tasks			Months and years
				Hours in the day
				Telling the time to 5 minutes
				Telling the time to the minute
				Using a.m. and p.m.
				24-hour clock
				Finding the duration
				Comparing durations
1				Start and end times
				Measuring time in seconds
				Compare mass
				Measure mass
				Add and subtract mass
				Compare volume
				Measure capacity
				Compare compacity
				Add and subtract capacity
				Temperature
•	draw 2-D shapes and make 3-D shapes using modelling materials: recognise 3-D	Shape	Autumn	Turns and angles
	shapes in different orientations and describe them			Right angles in shapes
	recognise angles as a property of shape or a description of a turn			Compare angles
	identify right angles as a property of shape of a description of a turn			Draw accurately
•	identify right angles, recognise that 2 right angles make a nan-turn, 3 make three-			Horizontal and vertical
	quarters of a turn and 4 a complete turn; identity whether angles are greater than			Parallel and perpendicular
_				Recognise and describe 2-D shapes
•	identity norizontal and vertical lines and pairs of perpendicular and parallel lines			Recognise and describe 3-D shapes
				<ul> <li>Make a 3-D shapes</li> </ul>
-	interpret and present data using her shorts with survey and tables	Statistics	Spring	Make a 5 D shape     Make a tally chart
	interpret and present data using par charts, pictograms and tables	Statistics	Shing	Iviane a cally citate     Drow nictograms
•	solve one-step and two-step questions [for example 'How many more?' and 'How			
	many rewer?" Jusing information presented in scaled bar charts and pictograms and			Interpret pictograms     Device and a second s
	tables			Bar charts
				Iables

National Curriculum	Торіс	Term	Skills/Small steps
<ul> <li>count in multiples of 6, 7, 9, 25 and 1,000</li> <li>find 1,000 more or less than a given number</li> <li>count backwards through 0 to include negative numbers</li> <li>recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</li> <li>order and compare numbers beyond 1,000</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1,000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> <li>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</li> </ul>	Number and Place Value	Autumn	<ul> <li>Represent numbers to 1000 recap</li> <li>100s, 10s and 1s recap</li> <li>Number line to 1000 recap Round to the nearest 10</li> <li>Round to nearest 100</li> <li>Count in 1000s</li> <li>1000s, 10s, 10s and 1s</li> <li>Partitioning numbers</li> <li>Number line to 10,000</li> <li>Find 1, 10, 100 more or less</li> <li>1000 more and less</li> <li>Compare numbers</li> <li>Order numbers</li> <li>Round to the nearest 1000</li> <li>Count in 25s</li> <li>Negative numbers</li> <li>Roman numerals to 100</li> </ul>
<ul> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	Addition and subtraction	Autumn	<ul> <li>Add and subtract 1s, 10s,100s and 1000s</li> <li>Add two 3-digit numbers – not crossing 10 or 100</li> <li>Add two 4-digit numbers – no exchange</li> <li>Add two 3-digit numbers – crossing 10 and 100</li> <li>Add two 4-digit – one exchange</li> <li>Add two 4-digit numbers – more than one exchange</li> <li>Subtract a 3-digit number from a 3-digit number – no exchange</li> <li>Subtract two 4-digit numbers – no exchange</li> <li>Subtract a 3-digit number from a 3-digit number – exchange</li> <li>Subtract a 3-digit number from a 3-digit number – exchange</li> <li>Subtract two 4-digit number from a 3-digit number – exchange</li> <li>Subtract two 4-digit number from a 3-digit number – exchange</li> <li>Subtract two 4-digit number from a 3-digit number – exchange</li> <li>Subtract two 4-digit numbers – nore than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Subtract two 4-digit numbers – more than one exchange</li> <li>Estimate answers</li> <li>Checking strategies</li> </ul>
<ul> <li>recall multiplication and division facts for multiplication tables up to 12 × 12</li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li> </ul>	Multiplication and Division	Autumn	<ul> <li>Multiply by 10</li> <li>Multiply 100</li> <li>Divide by 10</li> <li>Divide by 100</li> <li>Multiply by 1 and 0</li> <li>Divide by 1 and itself</li> <li>Multiply and divide by 3</li> <li>3 times table recap</li> <li>Multiply and divide by 6</li> <li>6 times table and division facts</li> <li>Multiply and divide by 9</li> <li>9 times table and division facts</li> <li>Multiply and divide by 7</li> <li>7 times table and division facts</li> </ul>

			Spring	11 and 12 times table
			561118	Muliple 3 numbers
				Easter pairs
				Efficient multiplication
				Whiten method     Multiple 2 digits by 1 digit
				Multiple 2-digits by 1-digit
				• Multiple 3-algts by 1-algit
				Divide 2-digits by 1-digit
				Divide 3-digt by 1-digit
				Corresepondance problems
٠	recognise and show, using diagrams, families of common equivalent fractions	Fractions and	Spring	Unit and non-unit fractions
٠	count up and down in hundredths; recognise that hundredths arise when dividing	decimals		What is a fraction?
	an object by 100 and dividing tenths by 10			Tenths
٠	solve problems involving increasingly harder fractions to calculate quantities, and			Count in tenths
	fractions to divide quantities, including non-unit fractions where the answer is a			Equivalent fractions
	whole number			Fractions greater than 1
•	add and subtract fractions with the same denominator			Count in fractions
•	recognise and write decimal equivalents of any number of tenths or hundreds			Add fractions
	1 1 3			Add 2 or more fractions
	recognise and write decimal equivalents to $\frac{4}{2}$ $\frac{2}{2}$ $\frac{4}{4}$			Subtract fractions
	find the effect of dividing a one or two digit number by 10 and 100 identifying the			Subtract 2 fractions
	Ind the effect of dividing a one- of two-digit humber by 10 and 100, identifying the			Subtract from whole amounts
	value of the digits in the answer as ones, tenths and hundredths			Fractions of a set of objects
•	round decimals with 1 decimal place to the hearest whole number			Calculate fractions of a quality
•	compare numbers with the same number of decimal places up to 2 decimal places			Problem solving
٠	solve simple measure and money problems involving fractions and decimals to 2			Recognise tenths and hundredths
	decimal places			Tenths and decimals
				• Tenths on a place value grid
				Tenths on a number line
				Divide 1-digit by 10
				• Divide 2-digt by 10
				Hundredths as decimals
				Hundredths on a place value grid
				• Divide 1 or 2-digts by 100
			Summer	Bonds to 10 and 100
				Make a whole
				Write a decimal
				Compare decimals
				Order decimals
				Round decimals
				Halves and guarters
•	convert between different units of measure [for example kilometre to metre: hour	Measurement	Autumn	Equivalent lengths m and cm
	to minutel			Equivalent lengths mm and cm
	to minutej			Kilometres
				Add lengths
		1	1	

٠	measure and calculate the perimeter of a rectilinear figure (including squares) in			Subtract lengths
	centimetres and metres			Measure perimeter
٠	find the area of rectilinear shapes by counting squares			Perimeter on a grid
•	estimate, compare and calculate different measures, including money in pounds			Perimeter
	and pence			Of a rectangle
•	read write and convert time between analogue and digital 12- and 24-bour clocks			Perimeter of rectilinear shapes
	solve problems involving converting from hours to minutes, minutes to seconds		Spring	What is area?
•	solve problems involving converting norm nours to minutes, minutes to seconds,			Counting squares
	years to months, weeks to days			Making shapes
				Comparing area
			Summer	Pounds and pence
			ounner	Ordering money
				Estimating money
				Convert nounds and nonco
				Add monoy
				Add money     Subtract menou
				Find Change     Four exerctions
				Four operations     Talling the time to E minutes
				I elling the time to 5 minutes     Tallies the time to 5 minutes
				I elling the time to the minute
				• Using a.m. and p.m.
				• 24-nour clock
				Hours, minutes and seconds
				Years, months, weeks and days
				Analogue to digital – 12 hour
				Analogue to digital – 24 hours
٠	compare and classify geometric shapes, including quadrilaterals and triangles,	Shape	Summer	Turns and angles
	based on their properties and sizes			Right angles in shapes
٠	identify acute and obtuse angles and compare and order angles up to 2 right angles			Compare angles
	by size			Identify angles
٠	identify lines of symmetry in 2-D shapes presented in different orientations			Compare and order angles
•	complete a simple symmetric figure with respect to a specific line of symmetry			<ul> <li>Recognise and describe 2-D shapes</li> </ul>
				Triangles
				Quadrilaterals
				Horizontal and vertical
				Lines of symmetry
				Complete a symmetric figure
٠	describe positions on a 2-D grid as coordinates in the first quadrant	Position and	Summer	Describe position
•	describe movements between positions as translations of a given unit to the	direction		Draw on a grid
	left/right and up/down			Move on a grid
•	plot specified points and draw sides to complete a given polygon			Describe movement on a grid
•	interpret and present discrete and continuous data using appropriate graphical	Statistics	Summer	Interpret charts
	methods, including bar charts and time graphs			Comparison, sum and difference
-	solve comparison, sum and difference problems using information presented in har			Introduce line graphs
	charts inictograms tables and other graph			• Line graphs
	charts, pictografiis, tables and other graph			

## Year 5

National Curriculum	Торіс	Term	Skills/Small steps			
<ul> <li>read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</li> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</li> <li>round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> <li>solve number problems and practical problems that involve all of the above</li> <li>read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</li> </ul>	Number and Place value	Autumn	<ul> <li>1000s, 100s, 10s and 1s recap</li> <li>Numbers to 10,000</li> <li>Rounding to nearest 10 and 100 recap</li> <li>Round to nearest 10,100 and 1000</li> <li>Numbers to 100,000</li> <li>Compare and order numbers to 100,000</li> <li>Round numbers within 100, 000</li> <li>Numbers to a million</li> <li>Counting in 10s, 100s, 1000s, 10,000s and 100,000s</li> <li>Compare and order numbers to one million</li> <li>Round numbers to one million</li> <li>Negative numbers</li> <li>Roman numerals to 1000</li> </ul>			
<ul> <li>add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> <li>add and subtract numbers mentally with increasingly large numbers</li> <li>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	Addition and subtraction	Autumn	<ul> <li>Add two 4-digit numbers – one exchange recap</li> <li>Add two 4-digit numbers – more than one exchange recap</li> <li>Add whole numbers with more than 4 digits (column method)</li> <li>Subtract two 4-digit numbers – one exchange recap</li> <li>Subtract two 4-digit numbers – more than one exchange recap</li> <li>Subtract two 4-digit numbers with more than 4 digits (column method)</li> <li>Round to estimate and approximate</li> <li>Inverse operations (add and sub)</li> <li>Multi-step problems</li> </ul>			
<ul> <li>identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers</li> <li>know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> <li>establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</li> <li>multiply and divide numbers mentally, drawing upon known facts</li> <li>divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</li> <li>multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000</li> <li>recognise and use square numbers and cube numbers, and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>)</li> </ul>	Multiplication and division	Autumn	<ul> <li>Multiples</li> <li>Factors</li> <li>Common factors</li> <li>Prime numbers</li> <li>Square numbers</li> <li>Cube numbers</li> <li>Cube numbers</li> <li>Multiply by 10 recap</li> <li>Multiply by 100 recap</li> <li>Multiply by 10,100 and 1000</li> <li>Divide by 10 recap</li> <li>Divide by 100 recap</li> <li>Divide by 100 recap</li> <li>Divide by 100 recap</li> <li>Divide by 10, 100, 1000</li> <li>Multiples of 10, 100 and 1000</li> <li>Multiply 2 and 3-digit numbers by 1 recap</li> </ul>			
squared ( <sup>2</sup> ) and cubed ( <sup>3</sup> )		- SPB	<ul> <li>Multiply 3-digits by 1-digit</li> </ul>			

٠	solve problems involving multiplication and division, including using their			•	Multiply 2-digits (area model) Multiply 2-digits by 2-digits
•	solve problems involving addition subtraction, multiplication and division and a			•	Multiply 2-digits by 2-digits
•	combination of these including understanding the meaning of the equals sign			•	Multiply 4-digit by 2-digit
•	solve problems involving multiplication and division including scaling by simple			•	Divide 2-digits by 1-digit recap
•	fractions and problems involving simple rates			•	Divide 3-digit by 1-digit recap
	inactions and problems involving simple rates			•	Divide 4-digits by 1-digit
				•	Divide with remainders
•	compare and order fractions whose denominators are all multiples of the same	Fractions,	Spring	•	Equivalent fractions recap
	number	decimals and		•	Fractions greater than 1 recap
•	identify name and write equivalent fractions of a given fraction represented	percentages		•	Improper fractions to mixed numbers
	visually, including tenths and hundredths			•	Mixed numbers to improper fractions
•	recognise mixed numbers and improper fractions and convert from one form to the			•	Number sequences
•	other and write mathematical statements > 1 as a mixed number [for			•	Compare and order fractions less than 1
	2 4 6 1			•	Compare and order fractions greater than 1
	example $5 + 5 = 5 = 15$			•	Add and subtract fractions
•	add and subtract fractions with the same denominator, and denominators that are			•	Ass fractions within 1
	multiples of the same number			•	Add 3 or more fractions
•	multiply proper fractions and mixed numbers by whole numbers supported by			•	Add fractions
•	materials and diagrams			•	Add mixed numbers
	71			•	Subtract fractions
•	read and write decimal numbers as fractions (for example 0.71 = $\overline{100}$ )			•	Subtract mixed numbers
•	recognise and use thousandths and relate them to tenths, hundredths and decimal			•	Subtract – breaking the whole
-	equivalents			٠	Subtract 2 mixed numbers
•	round decimals with 2 decimal places to the pearest whole number and to 1			•	Multiply unit fractions by an integer
	decimal place			•	Multiply non-unit fractions by an integer
•	read, write, order and compare numbers with up to 3 decimal places			•	Multiply mixed numbers by integers
•	solve problems involving number up to 3 decimal places			•	Calculate fractions of a quantity
•	recognise the per cent symbol (%) and understand that per cent relates to 'number			•	Fraction of an amount
	of parts per 100', and write percentages as a fraction with denominator 100, and as			•	Using fractions as operators
	a decimal fraction			•	Decimals up to 2 d.p
•	solve problems which require knowing percentage and decimal equivalents			•	Decimals as indictions
	1 1 1 2 4				Theusandths as desimals
	of $\overline{2}$ , $\overline{4}$ , $\overline{5}$ , $\overline{5}$ , $\overline{5}$ and those fractions with a denominator of a multiple of 10 or 25				Rounding docimals
					Order and compare decimals
					Understand nercentages
				•	Percentages as fractions and decimals
				•	Foujvalent F.D.P
			Summer	•	Adding decimals within 1
				•	Subtracting decimals within 1
				•	Complements to 1
				•	Adding decimals – crossing the whole
				•	Adding decimals with the same number of decimal places
				•	Subtracting decimals with the same number of decimal places

				<ul> <li>Adding decimals with a different number of decimal places</li> </ul>
				Subtracting decimals with a different number of decimal places
				Adding and subtracting wholes and decimals
				Decimal sequences
				Multiplying decimals by 10, 100 and 1000
				<ul> <li>Dividing decimals by 10, 100 and 1000</li> </ul>
	convert between different units of matric measure [for example, kilometre and	Measurement	Autumn	Measure perimeter
•	metre: centimetre and metre: centimetre and millimetre: gram and kilogram: litre			Perimeter on a grid recan
	and millilitrol			Porimeter of restangles recan
-				Calculate perimeter
•	imperial units such as inches, pounds and pints			Counting squares
•	massure and calculate the perimeter of composite rectilinear chapes in			Are of rectangles
•	contimetres and matres			Area of compound shapes
	calculate and compare the area of roctangles (including squares), including using			Area of irregular shapes
•	calculate and compare the area of rectangles (including squares), including using standard units, square contineators ( $m^2$ ) and square matrixs ( $m^2$ ) and estimate the		Summer	Kilometres recan
	standard diffits, square centimetres (cirr) and square metres (irr), and estimate the		00	Kilograms and kilometres
	area of integrital shapes			Millimetres and millilitres
•	estimate volume [for example, using 1 cm <sup>2</sup> blocks to build cuboids (including			Matric units
				Imperial units
•	solve problems involving converting between units of time			Converting units off time
•	use all four operations to solve problems involving measure [for example, length,			Timetable
	mass, volume, money] using decimal notation, including scaling			Compare volume
				Estimate volume
				Estimate capacity
	the stift of Diskey and the state and sthese schedule form of Diskey stations	Shane	Summer	
•	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Shape	Summer	Compare and order angles
•	know angles are measured in degrees: estimate and compare acute, obtuse and			Compare and order angles     Moasure angles in degrees
	reflex angles			Measure alignes in degrees
•	draw given angles, and measure them in degrees (°)			Measure with a profilacion     Drawing lines and angles on a straight line
•	identify:			Calculating angles on a straight line
٠	angles at a point and 1 whole turn (total 360°)			Calculating digits on a straight line
٠	angles at a point on a straight line and half a turn (total 180°)			Calculate angles and quadrilaterals resear
٠	other multiples of 90°			Calculating lengths and angles in shanes
•	use the properties of rectangles to deduce related facts and find missing lengths			Calculating lengths and angles in shapes     Bogular and irregular polygons
	and angles			Regular and integular polygons     Rescoring about 2 D shapes
•	distinguish between regular and irregular polygons based on reasoning about equal			• Reasoning about 5-D shapes
	sides and angles			
٠	identify, describe and represent the position of a shape following a reflection or	Position and	Summer	Describe position recap
	translation, using the appropriate language, and know that the shape has not	direction		Draw on a grid recap
	changed			Position in the first quadrant
				Translation
				Translation with coordinates
				Lines of symmetry recap
				Complete symmetric figure recap
				Reflection

				٠	Reflection with coordinates
٠	solve comparison, sum and difference problems using information presented in a	Statistics	Autumn	•	Interpret charts recap
	line graph			٠	Comparison, sum and difference recap
•	complete, read and interpret information in tables, including timetables			٠	Introduce line graphs recap
•				٠	Read and interpret line graphs
				٠	Draw line graphs
				٠	Use line graphs to solve problems
				٠	Read and interpret tables
				٠	Two-way table
				٠	Time tables

/ear 6								
National Curriculum	Торіс	Term	Skills/Small steps					
<ul> <li>read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>round any whole number to a required degree of accuracy</li> <li>use negative numbers in context, and calculate intervals across 0</li> <li>solve number and practical problems that involve all of the above</li> </ul>	Number and place value	Autumn	<ul> <li>Numbers to 10,000 recap</li> <li>Numbers to 100,000 recap</li> <li>Numbers to a million recap</li> <li>Numbers to ten million</li> <li>Compare and order any number</li> <li>Round numbers to 10,100 and 1000</li> <li>Round any number</li> <li>Negative numbers</li> </ul>					
<ul> <li>multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</li> <li>divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</li> <li>perform mental calculations, including with mixed operations and large numbers</li> <li>identify common factors, common multiples and prime numbers</li> <li>use their knowledge of the order of operations to carry out calculations involving the 4 operations</li> <li>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>solve problems involving addition, subtraction, multiplication and division</li> <li>use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> </ul>	Addition, subtraction, multiplication and division	Autumn	<ul> <li>Add and subtract whole numbers with more than 4-digits recap</li> <li>Inverse operations recap</li> <li>Multi-step addition and subtraction problems recap</li> <li>Add and subtract integers</li> <li>Multiply 4-digits by 1-digit, 2-digits by 2-digits, 3-digits by 2-digits recap</li> <li>Multiply up to a 4-digit number by 2-digit number</li> <li>Divide 4-digits by 1-digits recap</li> <li>Divide with remainders</li> <li>Short division</li> <li>Division using factors</li> <li>Long division</li> <li>Factors</li> <li>Common factors</li> <li>Common multiples</li> <li>Primes to 100</li> <li>Squares and cubes</li> <li>Order of operations</li> <li>Mental calculations and estimation</li> </ul>					

					Posson from known facts
		Fuentieure	A t	•	
•	use common factors to simplify fractions; use common multiples to express	Fractions	Autumn	•	Equivalent fractions recap
	fractions in the same denomination	including		•	Simplify fractions
٠	compare and order fractions, including fractions >1	decimals and		•	Improper fractions to mixed numbers recap
•	add and subtract fractions with different denominators and mixed numbers using	percentages		•	Mixed numbers to improper fractions recap
	the concent of equivalent fractions			•	Fractions on a number line
	multiply simple prime of proper fractions whither the ensurer in its simplest form			•	Compare and order
•	multiply simple pairs of proper fractions, writing the answer in its simplest form			•	Add and subtract fractions
					Add mixed fractions recan
	[for example, $4 \times 2 = 8$ ]				Add fractions
	$\frac{1}{2}$			•	
٠	divide proper fractions by whole numbers [for example, $3 \div 2 = 6$ ]			•	Subtract mixed numbers recap
٠	associate a fraction with division and calculate decimal fraction equivalents [for		- ·	•	Subtract fractions
	3		Spring	•	Decimals up to 2 decimal places recap
	example, 0.375] for a simple fraction [for example, $f 8$ ]			•	Understanding thousandths recap
•	identify the value of each digit in numbers given to 3 decimal places and multiply			•	Three decimal places
	and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places			•	Multiply by 10,100 and 1000
•	multiply one-digit numbers with up to 2 decimal places by whole numbers			•	Divide by 10, 100 and 1000
-	manipy one digit numbers with up to 2 decimal places by whole numbers			•	Multiply decimals by integers
•	use written division methods in cases where the answer has up to 2 decimal places			•	Divide decimals by integers
•	solve problems which require answers to be rounded to specified degrees of			•	Division to solve problems
	accuracy			•	Decimals as fractions
•	recall and use equivalences between simple fractions, decimals and percentages,			•	Fractions to decimals
	including in different contexts			•	Understanding percentages recap
				•	Fractions as percentages
				•	Equivalent FDP
					Order FDP
					Borcontage of an amount
	· · · · · · · · · · · · · · · · · · ·	Dette and	Couries of	•	
•	solve problems involving the relative sizes of 2 quantities where missing values can	Ratio and	Spring	•	Using ratio language
	be found by using integer multiplication and division facts	proportion		•	Ratio and fractions
٠	solve problems involving the calculation of percentages [for example, of measures			•	Introducing the ratio symbol
	and such as 15% of 360] and the use of percentages for comparison			•	Calculating ratio
٠	solve problems involving similar shapes where the scale factor is known or can be			•	Using scale factors
	found			•	Calculating scale factors
•	solve problems involving unequal sharing and grouping using knowledge of			•	Ratio and proportion problems
	fractions and multiples				
٠	use simple formulae	Algebra	Spring	•	Find a rule
•	enerate and describe linear number sequences		-	•	Forming expressions
	express missing number problems algebraically			•	Substitution
	express missing number proviems algebraically			•	Formulae
•	Tind pairs of numbers that satisfy an equation with 2 unknowns			•	Forming equations
•	enumerate possibilities of combinations of 2 variables				Solve simple one-step and two-step equations
					Find nairs of values
					Enumerate necesibilities
		1	1	•	Enumerate possibilities

•	solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [for example, mm <sup>3</sup> and km <sup>3</sup> ]	Measurement	Spring	• • • • •	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures Area dn perimeter Area of and triangle Area of parallelogram What is volume? Volume – counting cubes Volume of a cuboid
•	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets 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 recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	Shape	Summer	• • • • • • •	Measure with a protractor Draw lines and angles accurately recap Introduce angles Angles on a straight line recap Angles around a point recap Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – missing angles and special cases Angles in special quadrilaterals Area in regular polygons Draw shapes Draw nets of 3-D shape
•	describe positions on the full coordinate grid (all 4 quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes	Position and direction	Autumn	• • • •	The first quadrant Four quadrants Translation Reflections
•	interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average	Statistics	Summer	• • • • •	Read and interpret line graphs Draw line graphs Use line graphs to solve problems Circles Read and interpret pie charts Pie charts with percentages Draw a pie chart The mean