Primary Maths Curriculum Map

The objectives in red are matched with the NCETM's Ready to Progress criteria **plus** extra objectives chosen by extensive research and fitting for our school curriculum. These form the crucial objectives for ALL children to secure as there is evidence that these objectives will enable the children to progress into the next year and beyond in their mathematical journey.

The objectives in green are non-statutory in the national curriculum guidance but are included in the WRH planning schemes.

	Autumn	Spring	Summer
Reception	Baseline	Number:	Number:
	Getting to know you – Continuous provision	Introducing 0.	Building number beyond 10.
	 positional language where are things. 	Comparing numbers to 5.	Counting patterns beyond 10.
		Composition of 4 and 5.	Adding more.
	Number:	6, 7 and 8.	Taking away.
	Match and sort.	Making pairs.	Doubling.
	Compare amounts.	Combining 2 groups.	Sharing and Grouping.
	Representing, comparing and composition of	9 and 10.	Even and Odd.
	1, 2 and 3.	Comparing numbers to 10.	Deepening understanding.
	Representing numbers to 5.	Bonds to 10.	Patterns and Relationships.
	One more and less.		
	Measure, Shape and Spatial thinking:	Measure, Shape and Spatial thinking:	Measure, Shape and Spatial thinking:
	Compare size, mass and capacity.	Compare Mass.	Spatial reasoning x 4 blocks.
	Exploring pattern.	Compare Capacity.	Match, Rotate, Manipulate.
	Circles and triangles.	Length and height.	Compose and Decompose.
	Positional Language.	Time.	Visualise and Build.
	Shapes with 4 sides.	3-D shape.	Mapping.
	Time.	Pattern.	

	Autumn	Spring	Summer
Year 1	Place Value – within 10	Addition and Subtraction within 20	Multiplication and Division
	Count to ten, forwards and backwards,	Represent and use number bonds and related	Count in multiples of twos, fives and tens.
	beginning with 0 or 1, or from any given	subtraction facts within 20	
	number.		Solve one-step problems involving multiplication
		Read, write and interpret mathematical statements	and division, by calculating the answer using
	Read and write numbers from 1 to 20 in	involving addition (+), subtraction (-) and equals (=)	concrete objects, pictorial representations and
	numerals and words.	signs.	arrays with the support of the teacher.
	Compare numbers using and = signs	Add and subtract one-digit and two digit numbers to	<u>Fractions</u>
		20, including zero.	Recognise, find and name a half as one of two
	Given a number, identify one more or one		equal parts of an object, shape or quantity.
	less.	Solve one step problems that involve addition and	
		subtraction, using concrete objects and pictorial	Recognise, find and name a quarter as one of
	Identify and represent numbers using	representations, and missing number problems such	four equal parts of an object, shape or quantity.
	objects and pictorial representations	as 7= 🗌 –9	
	including the number line, and use the		Geometry – Position and Direction
	language of: equal to, more than, less than	<u>Place Value – Within 20</u>	Describe position, direction and movement,
	(fewer), most, least.	Count to twenty, forwards and backwards, beginning	including whole, half, quarter and three quarter
		with 0 or 1, from any given number.	turns.
	Addition and Subtraction within 10		
	Represent and use number bonds and	Count, read and write numbers to 20 in numerals and	Place Value –within 100
	related subtraction facts within 20	words.	Count to and across 100, forwards and
			backwards, beginning with 0 or 1, or from any
	Read, write and interpret mathematical	Given a number, identify one more or one less.	given number.
	statements involving addition (+),		
	subtraction (-) and equals (=) signs.	Identify and represent numbers using objects and	Count, read and write numbers to 100 in
	A del and exclusion of an a disit and Orbits	pictorial representations including the number line,	numerals.
	Add and subtract one digit and 2digit	and use the language of: equal to, more than, less	Civen a number identify and more and and loss
	numbers to 20, including zero.	than (fewer), most, least.	Given a number, identify one more and one less.
	Solve one-step problems that involve	<u> Place Value – within 50</u>	Identify and represent numbers using objects and
	addition and subtraction, using concrete	Count to 50 forwards and backwards, beginning with 0	pictorial representations including the number
	objects and pictorial representations and	or 1, or from any number.	line, and use the language of equal to, more than,
	missing number problems.		less than, most, least.
	<u>Geometry – Shape</u>	Count, read and write numbers to 50 in numerals.	
	Recognise and name common 2-D shapes,		
	including: (for example, rectangles (including	Given a number, identify one more or one less.	

squares), circles and triangles)		Measurement – Money
· · · · · · · · · · · · · · · · · · ·	Identify and represent numbers using objects and	Recognise and know the value of different
Recognise and name common 3-D shapes,	pictorial representations including the number line,	denominations of coins and notes.
including: (for example, cuboids (including	and use the language of: equal to, more than, less	
cubes), pyramids and spheres.)	than (fewer), most, least.	<u>Measurement – Time</u>
		Sequence events in chronological order using
	Count in multiples of twos, fives and tens.	language [for example, before and after, next,
		first, today, yesterday, tomorrow, morning,
	Measurement – Length and Height	afternoon and evening.
	Measure and begin to record lengths and heights.	
		Recognise and use language relating to dates,
	Compare, describe and solve practical problems for:	including days of the week, weeks, months and
	lengths and heights (for example, long/short, longer/shorter, tall/short, double/half)	years.
		Tell the time to the hour and half past the hour
	Measurement – Mass and Volume	and draw the hands on a clock face to show these
	Measure and begin to record mass/weight, capacity	times.
	and volume.	
		Compare, describe and solve practical problems
	Compare, describe and solve practical problems for	for time [for example, quicker, slower, earlier,
	mass/weight: [for example, heavy/light, heavier than,	later]
	lighter than]; capacity and volume [for example,	Measure and begin to record time (hours,
	full/empty, more than, less than, half, half full,	minutes, seconds)
	quarter]	

numerals and in words.(p); combine amounts to make a particular value.and 1/3 of a length, shape, set of of quarity.Recognise the place value of each digit in a two digit number (tens, ones)Find different combinations of coins that equal the same amounts of money.and 1/3 of a length, shape, set of of quarity.Identify, represent and estimate numbers using different representations including the number line.Find different combinations of coins that equal the same amounts of money.Autiplication and subtraction of money of the same unit, including giving change.Pupils use fractions of example recognise the equivalence of 2/4 arCompare and order numbers from 0 up to 100; use <,> and s 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, including problems involving multiplication and division, the multiplication and division, the same and using the multiplication and division, the same and using the multiplication and division, to 2, 5 and 10 times tables, including recognising odd and even numbers.Pupils should count in fractions up 1 fractions to equal sharing and group using materials, array, repeated addition, mental methods and multiplication and division facts, including problems in contexts.Pupils should count in fractions up 1 from any number and using the 2 and 4 equivalence on the multiplication and division facts, including problems in contexts.Addition and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a dwo-digit number and tens; two digit numbers and tens; two digit numbers and tens; two two- digit numbers and tens; two two- dig	Auti	itumn	Spring	Summer
numerals and in words.(p); combine amounts to make a particular value.and 1/3 of a length, shape, set of of quantity.Recognise the place value of each digit in a two digit number (tens, ones)Find different combinations of coins that equal the same amounts of money.and 1/3 of a length, shape, set of of quantity.Identify, represent and estimate numbers using different representations including the number line.Find different combinations of coins that equal the same amounts of money.Autis.Compare and order numbers from 0 up to 100; use <, > and = signs.Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.Write simple fractions for example recognise the equivalence of 2/4 ar continuous quantities by solving pri shapes, objects and quantities. The fractions to equal sharing and group numbers when they can be calculat measures, finding fractions of lengt and equals (=) signs.Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.Calculate mathematical statements for multiplication and division within the multiplication and division, using materials, array, repeated addition, mental methods and multiplication of division facts, including problems in contexts.Pupils should count in fractions up 1 from any number and using tare 1/4, 1/4 (or 1/2), 1/4, 2)Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two digit numbers, adding three one-digit numbers, adding three one-digit numbers, adding three one-digit numbers, subports place value and prepares for formal written methods and				Fractions
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Add and subtract numbers using 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. Recording addition and subtraction in columns supports place value and prepares for formal written methodsShow that the multiplication of two numbers can be done in any order (commutative) and division of one number cannot.Measurement - Time Tell and write the time to five minu quarter past/to the hour and draw a clock face to show these times.Measurement - Length and Height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacityMeasurement - Time Tell and write the time to five minu quarter past/to the hour and draw a clock face to show these times.		•	•	
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mentally, including: a two-digit number and ones; a two-digit number and tens; two two- digit numbers; adding three one-digit numbers. Recording addition and subtraction in columns supports place value and prepares for formal written methodsnumber by another cannot.number cannot.Measurement – Length and Height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacityKnow the number of minutes in an number of hours in a day.		-	•	<u>Measurement – Time</u>
ones; a two-digit number and tens; two two- digit numbers; adding three one-digit numbers. Recording addition and subtraction in columns supports place value and prepares for formal written methodsMeasurement – Length and Height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacityKnow the number of minutes in an number of hours in a day.	· · · · · ·		, , ,	Tell and write the time to five minutes, including
digit numbers; adding three one-digit numbers. Recording addition and subtraction in columns supports place value and prepares for formal written methodsMeasurement – Length and Height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacityKnow the number of minutes in an number of hours in a day.			number by another cannot.	quarter past/to the hour and draw the hands on
numbers. Recording addition and subtraction in columns supports place value and prepares for formal written methods with larger numbers.			Massurament Longth and Height	a clock face to show these times.
subtraction in columns supports place value and prepares for formal written methods with larger numbers. (liters (m)) to the nearest engreparity using	-			
and prepares for formal written methods (m/cm); mass (kg/g); temperature (°C); capacity		-		
with larger numbers				number of nours in a day.
rulers, scales, thermometers and measuring vessels.		th larger numbers.	(litres/ml) to the nearest appropriate unit, using	Compare and sequence intervals of time.
			raiers, scales, thermometers and measuring vessels.	

Show that the addition of two numbers can		
be done in any order (commutative) and	Compare and order lengths, mass, volume/capacity and record the results using >, < and =.	Statistics Interpret and construct simple pictograms, tally
		charts, block diagrams and simple tables.
	Measurement-Mass Canacity and Temperature	
		Ask and answer simple questions by counting the
Solve problems with addition and		number of objects in each category and sorting
		the categories by quantity.
		the categories by quantity.
		Ask and answer questions about totalling and
	Tulers, scales, thermometers and measuring vessels.	comparing categorical data.
	Compare and order lengths, mass volume/sanasity	
mental and written methods.		Geometry – Position and Direction
Porognico and uso the inverse relationship		Use mathematical vocabulary to describe
		position, direction and movement including
		movement in a straight line and distinguishing
-		
number problems.		between rotation as a turn and in terms of right
Dupils out and their understanding of the		angles for quarter, half and three-quarter turns
		(clockwise and anti-clockwise).
		Order and arrange combinations of mathematica
include sum and difference.		Order and arrange combinations of mathematica objects in patterns and sequences.
Geometry - Properties of Shape		objects in patterns and sequences.
· · · · · · · · · · · · · · · · · · ·		
line symmetry in a vertical line.		
Identify and describe the properties of 3-D		
• • • • • •		
and a thangle on a pyramid.j		
Compare and sort common 2-D and 3-D		
	 subtraction of one number from another cannot. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. Pupils extend their understanding of the language of addition and subtraction to include sum and difference. 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 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. 	 subtraction of one number from another cannot. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. Pupils extend their understanding of the language of addition and subtraction to include sum and difference. Geometry – Properties of Shape Identify and describe the properties of 2-D shapes, including the number of edges, vertices and faces. Identify and describe the properties 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

	Autumn	Spring	Summer
Year 3	Place Value	Multiplication and Division	Fractions
	Identify, represent and estimate numbers	Recall and use multiplication and division facts for the	Recognise and show, using diagrams, equivalent
	using different representations.	3, 4 and 8 multiplication tables.	fractions with small denominators.
	Find 10 or 100 more or less than a given number.	Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two digit numbers	Compare and order unit fractions, and fractions with the same denominators.
	Recognise the place value of each digit in a	times one-digit numbers, using mental and	Add and subtract fractions with the same
	three-digit number (hundreds, tens, ones).	progressing to formal written methods.	denominator within one whole [for example, $5/7 + 1/7 = 6/7$]
	Compare and order numbers up to 1000.	Solve problems, including missing number problems, involving multiplication and division, including positive	Solve problems that involve all of the above.
	Read and write numbers up to 1000 in	integer scaling problems and correspondence	
	numerals and in words.	problems in which n objects are connected to m	Measurement – Money
	Colve number methods and meetical	objectives.	Add and subtract amounts of money to give
	Solve number problems and practical	Measurement Longth and Devimator	change, using both £ and p in practical contexts.
	problems involving these ideas.	Measurement- Length and Perimeter Measure, compare, add and subtract: lengths	Moosurement Time
	Count from 0 in multiples of 4, 8, 50 and	(m/cm/mm) Pupils continue to measure using the	Measurement – Time Tell and write the time from an analogue clock,
	100. Pupils now use multiples of 2, 3, 4, 5, 8,	appropriate tools and units, progressing to using a	including using Roman numerals from I to XII and
	10, 50 and 100	wider range of measures, including comparing and	12-hour and 24-hour clocks.
	10, 50 and 100	using mixed units (for example, 1 kg and 200g) and	
	Addition and Subtraction	simple equivalents of mixed units (for example, 5m =	Estimate and read time with increasing accuracy
	Add and subtract numbers mentally,	500cm).	to the nearest minute.
	including: a three-digit number and ones; a		
	three-digit number and tens; a three digit	Measure the perimeter of simple 2-D shapes	Record and compare time in terms of seconds,
	number and hundreds.		minutes and hours. Use vocabulary such as
		Fractions	o'clock, a.m./p.m., morning, afternoon, noon and
	Add and subtract numbers with up to three	Count up and down in tenths; recognise that tenths	midnight.
	digits, using formal written methods of	arise from dividing an object into 10 equal parts and in	
	columnar addition and subtraction.	dividing one-digit numbers or quantities by 10	Know the number of seconds in a minute and the
			number of days in each month, year and leap
	Estimate the answer to a calculation and use	Recognise and use fractions as numbers: unit fractions	year.
	inverse operations to check answers.	and non-unit fractions with small denominators.	
			Compare durations of events [for example to
			calculate the time taken by particular events or
			tasks].

Solve problems, including missing number	Recognise, find and write fractions of a discrete set of	Geometry – Properties of Shape
problems, using number facts, place value,	objects: unit fractions and non-unit fractions with	Recognise angles as a property of shape or a
and more complex addition and subtraction.	small denominators.	description of a turn.
	•	

Year 4	Place ValueCount in multiples of 6, 7, 9. 25 and 1000.Find 1000 more or less than a given number.Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones)	Multiplication and DivisionRecall and use multiplication and division facts for multiplication tables up to 12 × 12.Recognise and use factor pairs and commutativity in mental calculations.Pupils practise to become fluent in the formal written	Decimals Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number.
	Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds,	multiplication tables up to 12 × 12. Recognise and use factor pairs and commutativity in mental calculations.	decimal places up to two decimal places. Round decimals with one decimal place to the
	Recognise the place value of each digit in a four digit number (thousands, hundreds,	Recognise and use factor pairs and commutativity in mental calculations.	Round decimals with one decimal place to the
	Recognise the place value of each digit in a four digit number (thousands, hundreds,	mental calculations.	
	four digit number (thousands, hundreds,	mental calculations.	
	four digit number (thousands, hundreds,		nearest whole number.
	-	Pupils practise to become fluent in the formal written	
	tens and ones)	Pupils practise to become fluent in the formal written	
			Recognise and write decimal equivalents to ¼ ½
		method of short multiplication and short division with	and ¾
	Order and compare numbers beyond 1000	exact answers.	
			Find the effect of dividing a one or two digit
	Identify, represent and estimate numbers	Multiply two digit and three digit numbers by a one	number by 10 or 100, identifying the value of the
	using different representations.	digit number using formal written layout.	digits in the answer as ones, tenths and
			hundredths.
	Round any number to the nearest 10, 100 or	Solve problems involving multiplying and adding,	
	1000	including using the distributive law to multiply two	Measurement – Money
		digit numbers by one digit, integer scaling problems	Estimate, compare and calculate different
	Solve number and practical problems that	and harder correspondence problems such as n	measures, including money in pounds and pence.
	involve all of the above and with increasingly	objects are connected to m objects.	
	large positive numbers.		Solve simple measure and money problems
		Measurement – Length and Perimeter	involving fractions and decimals to two decimal
	Read Roman numerals to 100.	Measure and calculate the perimeter of a rectilinear	places.
	Count he close and the south south to include	figure (including squares) in centimetres and metres.	NA
	Count backwards through zero to include	Perimeter can be expressed algebraically as 2(a + b)	Measurement – Time
	negative numbers.	where a and b are the dimensions in the same unit	Convert between different units of measure [for
	Addition and Subtraction	Convert between different units of measure [for	example, kilometre to metre; hour to minute]
	Addition and Subtraction Add and subtract numbers with up to 4	example, kilometre to metre]	Read, write and convert time between analogue
	digits using the formal written methods of		and digital 12- and 24-hour clocks.
	columnar addition and subtraction where	Fractions	
	appropriate.	Recognise and show, using diagrams, families of	Solve problems involving converting from hours
		common equivalent fractions.	to minutes; minutes to seconds; years to months;
	Estimate and use inverse operations to		weeks to days.
	check answers to a calculation.	Count up and down in hundredths; recognise that	
		hundredths arise when dividing an object by one	
		hundred and dividing tenths by ten.	
		handred and dividing tentils by ten.	

 Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.	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.	Geometry – Properties of Shape Identify acute and obtuse angles and compare and order angles up to two right angles by size.
<u>Measurement – Area</u> Find the area of rectilinear shapes by counting squares. They relate area to arrays and multiplication.	Add and subtract fractions with the same denominator.	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
 Multiplication and Division Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9. 25 and 1000 Multiply by 10 and 100. 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. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	Decimals Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Solve simple measure and money problems involving fractions and decimals to two decimal places.	Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. <u>Statistics</u> 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. <u>Geometry – Position and Direction</u> Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down.

	Autumn	Spring	Summer
Year 5	Place Value	Multiplication and Division	Geometry – Properties of Shapes
	Read, write, order and compare numbers to	Multiply and divide numbers mentally drawing upon	Identify 3D shapes, including cubes and other
	at least 1000000 and determine the value of	known facts.	cuboids, from 2D representations.
	each digit.		
		Multiply numbers up to 4 digits by a one or two digit	Use the properties of rectangles to deduce
	Count forwards or backwards in steps of	number using a formal written method, including long	related facts and find missing lengths and angles.
	powers of 10 for any given number up to	multiplication for 2 digit numbers.	
	1000000.		Distinguish between regular and irregular
		Divide numbers up to 4 digits by a one digit number	polygons based on reasoning about equal sides
	Round any number up to 1000000 to the	using the formal written method of short division and	and angles.
	nearest 10, 100, 1000, 10000 and 100000	interpret remainders appropriately for the context.	
			Know angles are measured in degrees: estimate
	Solve number problems and practical	Solve problems involving addition and subtraction,	and compare acute, obtuse and reflex angles.
	problems that involve all of the above.	multiplication and division and a combination of	
		these, including understanding the use of the equals	Draw given angles, and measure them in degrees
	Read Roman numerals to 1000 (M) and	sign.	(o)
	recognise years written in Roman numerals.	Fractions	Identify: angles at a point and one whole turn
	Addition and Subtraction	Multiply proper fractions and mixed numbers by	(total 3600), angles at a point and one whole turn (total 3600), angles at a point on a straight line
	Add and subtract numbers mentally with	whole numbers, supported by materials and diagrams.	and $\frac{1}{2}$ a turn (total 1800) other multiples of 900
	increasingly large numbers.	whole numbers, supported by materials and diagrams.	
	increasingly large numbers.	Read and write decimal numbers as fractions [for	Geometry – Position and Direction
	Add and subtract whole numbers with more	example 0.71 = 71/100]	Identify, describe and represent the position of a
	than 4 digits, including using formal written		shape following a reflection or translation, using
	methods (columnar addition and	Solve problems involving multiplication and division,	the appropriate language, and know that the
	subtraction)	including scaling by simple fractions and problems	shape has not changed.
		involving simple rates.	
	Use rounding to check answers to		<u>Decimals</u>
	calculations and determine, in the context of	Perimeter and Area	Solve problems involving number up to three
	a problem, levels of accuracy.	Measure and calculate the perimeter of composite	decimal places.
		rectilinear shapes in cm and m.	
	Solve addition and subtraction multi-step		Multiply and divide whole numbers and those
	problems in contexts, deciding which	Calculate and compare the area of rectangles	involving decimals by 10, 100 and 1000
	operations and methods to use and why.	(including squares), and including using standard	
		units, cm2,m2 estimate the area of irregular shapes.	Use all four operations to solve problems
			involving measure [for example, length, mass,

Multiplication and Division	Decimals and Percentages	volume, money] using decimal notation, including
Multiply and divide numbers mentally	Read, write, order and compare numbers with up to	scaling.
drawing upon known facts.	three decimal places.	
Multiply and divide whole numbers by 10, 100 and 1000.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	<u>Number -</u> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Recognise and use square numbers and cube numbers and the notation for squared (2)	Round decimals with two decimal places to the nearest whole number and to one decimal place. Solve problems involving number up to three decimal places.	Measurement – Converting Units Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; I and ml] Understand and use approximate equivalences
and cubed (3) Solve problems involving multiplication and	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with	between metric units and common imperial units such as inches, pounds and pints.
division including using their knowledge of factors and multiples, squares and cubes.	denominator 100, and as a decimal.	Solve problems involving converting between units of time.
Know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers.	Solve problems which require knowing percentage and decimal equivalents of ½ ¼ ¾ 1/5 2/5 4/5 and those fractions with a denominator of a multiple of 10 or 25.	<u>Measurement – Volume</u> Estimate volume [for example using 1cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
Establish whether a number up to 100 is prime and recall prime numbers up to 19.	<u>Statistics</u> Solve comparison, sum and difference problems using information presented in a line graph.	Use all four operations to solve problems involving measure.
<u>Fractions</u> Compare and order fractions whose denominators are multiples of the same number.	Complete, read and interpret information in tables including timetables.	
Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.		
Recognise mixed numbers and improper fractions and convert from one form to the		

	other and write mathematical statements >1 as a mixed number [for example 2/5 + 4/5 = 6/5 = 1 whole and 1/5]		
	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.		
	Autumn	Spring	Summer
Year 6	Place ValueRead, write, order and compare numbers up to 10,000,000 and determine the value of each digit.Round any whole number to a required degree of accuracy.Use negative numbers in context, and calculate intervals across zero.	AlgebraUse simple formulae.Generate and describe linear number sequences.Express missing number problems algebraically.Find pairs of numbers that satisfy an equation with two unknowns.Enumerate possibilities of combinations of two	Geometry –ShapeDraw 2-D shapes using given dimensions and angles.Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and
	Solve number and practical problems that involve all of the above.	variables.	find missing angles.
	Four Operations Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	<u>Geometry - Position and direction</u> Describe positions on the full coordinate grid (all four quadrants).
	Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication.	Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
	Divide numbers up to 4 digits by a 2-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.	Decimals Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.	

Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. Perform mental calculations, including with mixed operations and large numbers.	Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded	
Identify common factors, common multiples and prime numbers.	to specified degrees of accuracy.	
Use their knowledge of the order of operations to carry out calculations involving the four operations.	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example 3/8]	
Solve problems involving addition, subtraction, multiplication and division.	Percentages Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for	
Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.	comparison. Recall and use equivalences between simple fractions, decimals and percentages including in different	
Fractions Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	contexts. <u>Perimeter, Area and Volume</u> Recognise that shapes with the same areas can have different perimeters and vice versa.	
Compare and order fractions, including fractions > 1	Recognise when it is possible to use formulae for area and volume of shapes.	
Generate and describe linear number sequences (with fractions)	Calculate the area of parallelograms and triangles.	
Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.	Calculate, estimate and compare Volume of cubes and cuboids using standard units, including cm3, m3 and extending to other units (mm3, km3)	

Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example ¼ x ½ = 1/8] Divide proper fractions by whole numbers [for example 1/3 ÷ 2 = 1/6]	Statistics Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Interpret and construct pie charts and line graphs and	
Measurement – Converting Units Solve problems involving the calculation and conversion of units of measure, using	use these to solve problems. Calculate the mean as an average.	
decimal notation up to three decimal places where appropriate. Use, read, write and convert between		
standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to		
3dp. Convert between miles and kilometres.		