

Children must be able to problem solve, explaining their reasons fluently in each of the skills below.		Autumn				
Year 1	Number and Place Value (NPV) 1. I can read and write numbers to 100 in numerals; forwards and backwards 2. I can count in multiples of 2, 5 and 10 3. I can use the language of: equal to, more than, less than (fewer), most, least 4. I can identify one more and one less including bridging 10 and 100 5. I can count to and across 100, forwards and backwards from any given number 6. I can recognise and create repeating patterns 7. I can recall number bonds for all numbers within 20	Addition and Subtraction (AS) 1. I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs 2. I can represent and use number bonds and related subtraction facts 3. I can add one and two digit numbers to 20 4. I can subtract one and two digit numbers to 20 5. I can solve one-step problems	1E	1WT	1ES	1GD
	Multiplication and Division (MD) 1. I can solve one-step problems involving multiplication 2. I can solve one-step problems involving division 3. I can double or half any number up to 20	Fractions, Decimals, Percentage and Ratio and Proportion (FDP) 1. I can recognise, find and name a half of an object, shape or quantity 2. I can recognise, find and name a quarter of an object, shape or quantity	1E	1WT	1ES	1GD
	Measure (M) 1. I can compare, describe and solve practical problems for measure (length, mass, volume/capacity, time) 2. I can recognise and know the value of different denominations of coins and notes 3. I can sequence events in chronological order 4. I can recognise and use language relating to dates 5. I can tell the time to the hour and half past the hour	Geometry (G) 1. I can recognise and name common 2-D shapes 2. I can recognise and name common 3-D shapes 3. I can describe position, direction and movement, including whole, half, quarter and three-quarter turns	1E	1WT	1ES	1GD
			Spring			
		Summer				

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Year 2	Number and Place Value (NPV)		Addition and Subtraction (AS)						
	<ol style="list-style-type: none"> I can read, write, order and compare numbers from 0 up to 100; use <, > and = signs I can count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward I can recognise the place value of each digit in any two-digit number I can use place value and number facts to solve problems 		<ol style="list-style-type: none"> I can solve problems with addition and subtraction, using concrete objects or pictorial representations I can add 2 x 2 digit numbers I can subtract 2 x 2 digit numbers I can recall number facts to 20 fluently and derive facts up to 100 I can show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot I can use inverse to check calculations and solve missing number problems 			2E	2WT	2ES	2GD
	Multiplication and Division (MD)		Fractions, Decimals, Percentage and Ratio and Proportion (FDP)			Spring			
	<ol style="list-style-type: none"> I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables I can recognise odd and even numbers I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot I can solve problems involving multiplication and division I can use x, ÷ and = signs 		<ol style="list-style-type: none"> I can recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity I can write simple fractions for example, $\frac{1}{2}$ of 6 = 3 I can recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ within shapes I can count in fractions up to 10 from any number using $\frac{1}{2}$ and $\frac{2}{4}$ equivalents 			2E	2WT	2ES	2GD
Statistics (S)		Measure (M)		Geometry (G)		Summer			
<ol style="list-style-type: none"> I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables 		<ol style="list-style-type: none"> I can compare and order standard units of measure to solve problems: lengths, mass, volume/capacity I can read scales in divisions of ones, twos, fives and tens on rulers, weighing scales, thermometers and measuring vessels I can find different combinations of coins that equal the same amounts of money and can recognise and use symbols for pounds (£) and pence (p) I can add and subtract money and give change I can tell and write the time to the nearest 15 minute (e.g. quarter to and quarter past) I can tell and write the time to 5 minutes and sequence intervals of time I know minutes in an hour and hours in a day 		<ol style="list-style-type: none"> I can identify, describe, compare and sort the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line I can identify and describe properties of 3-D shapes I can order and arrange combinations of mathematical objects in patterns and sequences I can 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) 		2E	2WT	2ES	2GD

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Year 3	Number and Place Value (NPV)		Addition and Subtraction (AS)			3E	3WT	3ES	3GD
	<ol style="list-style-type: none"> I can recognise the place value of each digit in a three-digit number I can count from 0 in multiples of 4, 8, 50 and 100 I can find 10 or 100 more or less than a given number I can read, write, order, estimate and compare numbers up to 1000 I can round any number to 10 and 100 		<ol style="list-style-type: none"> I can add and subtract numbers mentally to and from a 3 digit number I can add numbers with up to three digits, using formal written methods and apply this to reasoning and problem solving I can subtract numbers with up to three digits, using formal written methods and apply this to reasoning and problem solving I can estimate the answer to a calculation and use inverse operations to check answers and solve missing number problems 						
Multiplication and Division (MD)		Fractions, Decimals, Percentage and Ratio and Proportion (FDP)			Spring				
<ol style="list-style-type: none"> I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables I can write and calculate mathematical statements for multiplication and division using mental methods to solve problems I can write and calculate mathematical statements for multiplication using formal written methods to solve problems I can write and calculate mathematical statements for division using formal written methods to solve problems 		<ol style="list-style-type: none"> I can 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 I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators I can add and subtract fractions with the same denominator within one whole I can compare and order unit fractions, and fractions with the same denominators, recognising equivalence 			3E	3WT	3ES	3GD	
Statistics (S)		Measure (M)		Geometry (G)					Summer
<ol style="list-style-type: none"> I can interpret and present data using bar charts, pictograms and tables 		<ol style="list-style-type: none"> I can measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) I can measure the perimeter of simple 2-D shapes I can add and subtract money (£/p), giving change I can tell and write the time from an analogue clock (to the nearest minute), including using Roman numerals from I to XII I can tell the time on 12-hour and 24-hour clocks I know the relationships between seconds, minutes, days, months and years I can compare durations of events [for example to calculate the time taken by particular events or tasks] 		<ol style="list-style-type: none"> I can identify, describe and compare 2-D shapes I can identify, describe and compare 3-D shapes I can recognise angles as a property of shape or a description of a turn I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines I can identify and recognise right angles in a turn I can identify angles that are greater or less than a right angle 		3E	3WT	3ES	3GD
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Year 4	Number and Place Value (NPV)		Addition and Subtraction (AS)						
	<ol style="list-style-type: none"> I can count in multiples of 6, 7, 9, 25 and 1000 I can count backwards through zero to include negative numbers I can read, write, order and compare four digit numbers I can recognise the place value of each digit in a 4 digit number I can round any number to the nearest 1000 I can read Roman numerals to 100 		<ol style="list-style-type: none"> I can add numbers with up to 4 digits using the formal written method, including solving problems in context I can subtract numbers with up to 4 digits using the formal written method, including solving problems in context I can estimate and use inverse operations to check answers to a calculation I can add and subtract numbers mentally to and from a 4 digit number 		4E	4WT	4ES	4GD	
	Multiplication and Division (MD)		Fractions, Decimals, Percentage and Ratio and Proportion (FDP)		Spring				
	<ol style="list-style-type: none"> I can recall multiplication and division facts for multiplication tables up to 12 x 12 I can recognise and use factor pairs and commutatively in mental calculations I can multiply two-digit and three-digit numbers by a one-digit number using a formal method I can divide two-digit and three-digit numbers by a one-digit number using a formal method I can solve problems using x and ÷ I can multiply and divide a two digit whole number by 10, 100 and 1000 		<ol style="list-style-type: none"> I can recognise and show, common equivalent fractions I can count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten I can solve problems involving increasingly harder fractions to calculate quantities I can add and subtract fractions with the same denominator I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and of tenths or hundredths I can round decimals with one decimal place to the nearest whole number I can compare numbers with the same number of decimal places up to two decimal places 		4E	4WT	4ES	4GD	
Statistics (S)		Measure (M)	Geometry (G)			Summer			
<ol style="list-style-type: none"> I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs I can solve comparison, sum and difference problems using information presented in graphs 		<ol style="list-style-type: none"> I can convert between different units of measure in order to compare and calculate I can measure and calculate the perimeter of a rectilinear figures and find their area (including counting squares) I can read, write and convert time between analogue and digital 12- and 24-hour clocks I can solve problems where I have to convert between seconds, minutes, hours, days, months and years I can solve problems involving money 	<ol style="list-style-type: none"> I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes I can identify acute and obtuse angles and compare and order angles up to two right angles by size I can identify lines of symmetry in 2-D shapes presented in different orientations I can describe positions on a 2-D grid as coordinates in the first quadrant I can describe movements between positions as translations of a given unit to the left/right and up/down. 			4E	4WT	4ES	4GD

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		Number and Place Value (NPV)		Addition and Subtraction (AS)		5E	5D	5S	5M	
		<ol style="list-style-type: none"> I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals 								
		Multiplication and Division (MD)		Fractions, Decimals, Percentage and Ratio and Proportion (FDP)		Spring				
		<ol style="list-style-type: none"> I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers I can 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 to solve problems I can 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 I can multiply and divide whole numbers and decimals by 10, 100 and 1000 I can recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) 	<ol style="list-style-type: none"> I can compare and order fractions whose denominators are all multiples of the same number I can identify, name and write equivalent fractions of any given fraction I can recognise mixed numbers and improper fractions and convert from one form to the other I can add and subtract fractions with the same denominator and denominators that are multiples of the same number I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams I can read, write, order and compare decimal numbers as fractions including tenths, hundredths and thousandths and round to 1dp I can round decimals with two places to whole numbers I can recognise and understand the percent symbol and write percentages as a fraction with denominator 100 & decimals I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 				5E	5D	5S	5M
		Statistics (S)	Measure (M)		Geometry (G)		Summer			
		<ol style="list-style-type: none"> I can solve comparison, sum and difference problems using information presented in a line graph I can complete, read and interpret information in tables, including timetables 	<ol style="list-style-type: none"> I can choose when to convert between different units of metric measure (e.g. km and m; cm and m; cm and mm; g and kg; l and ml money) I understand and use approximate equivalences between metric units and common imperial units such as inches, miles, pounds and pints I can measure and calculate the perimeter of composite rectilinear shapes I can calculate and compare the area of rectangles and irregular shapes I can solve problems involving converting between units of time 		<ol style="list-style-type: none"> I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations I can identify, estimate, draw and compare acute, obtuse and reflex angles I can solve problems of angles at a point and in a straight line I can use the properties of rectangles to deduce related facts and find missing lengths and angles I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape is the same 		5E	5D	5S	5M

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	Number and Place Value (NPV)		Addition, Subtraction, Multiplication and Division (ASMD)					
	<ol style="list-style-type: none"> I can read, write, order and compare numbers up to 10 000 000 and determine the value of each digit I can round any whole number to a required degree of accuracy I can use negative numbers in context, and calculate intervals across zero I can identify the value of each digit in numbers given to three decimal places I can explore the order of operations using brackets; for example, $2 + 1 \times 3 = 5$ and $(2 + 1) \times 3 = 9$ 		<ol style="list-style-type: none"> I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division and short division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context I can multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places I can perform mental calculations, including with mixed operations and large numbers I can identify common factors, common multiples and prime numbers I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why 			6E	6D	6S
Fractions, Decimals, Percentage (FDP)		Ratio and Proportion (RP)		Spring				
<ol style="list-style-type: none"> I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination I can compare and order fractions, including fractions > 1 I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions I can multiply simple pairs of proper fractions, writing the answer in its simplest form I can divide proper fractions by whole numbers I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] I can multiply one-digit numbers with up to two decimal places by whole numbers I can use written division methods in cases where the answer has up to two decimal places I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts 		<ol style="list-style-type: none"> I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts I can solve problems involving the calculation of percentages and the use of percentages for comparison I can solve problems involving similar shapes where the scale factor is known or can be found I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 			6E	6D	6S	6M
Algebra (A)	Statistics (S)	Measure (M)	Geometry (G)		Summer			
<ol style="list-style-type: none"> I can use simple formulae I can generate and describe linear number sequences I can find pairs of numbers that satisfy an equation with two unknowns I can express missing number problems 	<ol style="list-style-type: none"> I can interpret and construct pie charts and line graphs and use these to solve problems I can calculate and interpret mean 	<ol style="list-style-type: none"> I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate I can calculate using formulae for area, including parallelograms and triangles I can calculate volume of shapes, including cubes and cuboids 	<ol style="list-style-type: none"> I can draw 2-D shapes using given dimensions and angles I can recognise, describe and build simple 3-D shapes, including making nets I can compare and classify geometric shapes based on their properties and sizes and find unknown angles <i>and lengths</i> in any triangles, quadrilaterals, and regular polygons I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles I can draw, translate, reflect and describe positions on the full coordinate grid (all four quadrants) 		6E	6D	6S	6M

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