

<b>FINAL</b>	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Autumn 1		<b>The Colour Monster</b>	<b>My Cat Likes to Hide in Boxes</b>	<b>Book: We're Going on a Bear Hunt</b>	<b>Book: In Every House on Every Street</b>	<b>Book: Mr Gumpy's Outing</b>	<b>Book: The Three Little Pigs</b>	
				<i>Phase: Just Like Me</i>	<i>Phase: Just Like Me</i>	<i>Phase: Just Like Me</i>	<i>Phase: Just Like Me</i>	
				EWPS: Height	EWPS: Matching	EWPS: Comparing amounts in 5's frames (language more less)	EWPS: Pattern	
Autumn 2	<i>Diwali</i>	<i>Halloween Bonfire Night</i>					<i>Christmas</i>	<i>Christmas</i>
	<b>Book: Dipal's Diwali</b>	<b>Book: Pumpkin Soup</b>	<b>Book: What do Machines Do All Day</b>	<b>Book: Machine Poems</b>	<b>Book: No Bot the Robot with No Bottom</b>	<b>Book: The Christmas Story</b>	<b>Book: Rosie Revere, Engineer</b>	<b>Book:</b>
	<i>Phase: It's Me 1 2 3</i>	<i>Phase: It's Me 1 2 3</i>	<i>Phase: It's Me 1 2 3</i>	<i>Phase: Light and Dark</i>	<i>Phase: Light and Dark</i>	<i>Phase: Light and Dark</i>	<i>Phase: Light and Dark</i>	<i>Phase: Light and Dark</i>
	EWPS: Introduce 1,2,3 Representing, counting by touching objects	EWPS: Comparing 1 2 3 More/ fewer/ equal/ unequal	EWPS: Composition of 1 2 3  Different ways to make 1 2 3	EWPS: Introduce 4,5 Representing, counting by touching objects	EWPS: One More	EWPS: One less	EWPS: Shapes with up to 4 sides.	EWPS: Night and day.
Spring 1	<b>Book: Rosie's Hat</b>	<b>Book: Peepo</b>	<b>Book: Coming to England</b>	<b>Book: Smartest Giant</b>	<b>Book: The Gingerbread Man</b>	<b>Book: Stick Man</b>	<b>Book: The Bog Baby</b>	
	<i>Phase: Alive in 5</i>	<i>Phase: Alive in 5</i>	<i>Phase: Alive in 5</i>	<i>Phase: Alive in 5</i>	<i>Phase: Growing 6 7 8</i>	<i>Phase: Growing 6 7 8</i>	<i>Phase: Growing 6 7 8</i>	
	EWPS: Comparing numbers to 5	EWPS: Composition of 4 and 5	EWPS: Compare mass	EWPS: Compare capacity	EWPS: Composition of 6 7 8	EWPS: Combining 2 groups	EWPS: Time	

Spring 2	<b>Book: The Gigantic Turnip</b>	<b>Book: Jack and the Beanstalk</b>	<b>Book: Handa's Surprise</b>	<b>Book: Rosie's Walk</b>	<b>Book: Oliver's Vegetables</b>			
	<i>Phase: 9 and 10</i>	<i>Phase: 9 and 10</i>	<i>Phase: To 20 and Beyond</i>	<i>Phase: To 20 and Beyond</i>	<i>Phase: First, Then, Now</i>			
	EWPS: Comparing 9 and 10	EWPS: Number bonds to 10	EWPS: Building numbers beyond 10	EWPS: Counting numbers beyond 10	EWPS: Adding more			
Summer 1	<b>Book: Rumble in the Jungle</b>	<b>Book: A First Book of Animals</b>	<b>Book: Little Red and the Very Hungry Lion</b>	<b>Book: Hello, Hello</b>	<b>Book: Superworm</b>			
	<i>Phase: First, Then, Now</i>	<i>Phase: Phase: First, Then, Now</i>	<i>Phase: Find My Pattern</i>	<i>Phase: Find My Pattern</i>	<i>Phase: Find My Pattern</i>			
	EWPS: Taking away	EWPS: How many did I add?	EWPS: Doubling	EWPS: Halving	EWPS: Sharing and grouping			
Summer 2	<b>Book: Lucy and Tom at the Seaside</b>	<b>Book: Who's Hiding at the Seaside</b>	<b>Book: Somebody Swallowed Stanley</b>	<b>Book: Pirates Love Underpants</b>	<b>Book: Paper Dolls</b>			
	<i>Phase: Growing 6 7 8</i>	<i>Phase: Growing 6 7 8</i>	<i>Phase: 9 and 10</i>	<i>Phase: 9 and 10</i>	<i>Phase: Find My Pattern</i>			
	EWPS: Length	EWPS: Height	EWPS: 3d shape	EWPS: Pattern	EWPS: Even and odd			

Year 1	1	2	3	4	5	6	7	8	9	10	11	1
Autumn	<b>Number: Place Value (within 10)</b> NPV-1 Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = <ul style="list-style-type: none"> <li>count numbers to 100 in numerals;</li> <li>count in multiples of twos, fives and tens</li> <li>identify and represent numbers using objects and pictorial representations</li> <li>read and write numbers to 100 in numerals</li> <li>read and write numbers from 1 to 20 in numerals and words</li> <li>given a number, identify one more and one less</li> </ul>					<b>Number: Addition and subtraction (within 10)</b> 1NF-1 Develop fluency in addition and subtraction facts within 10. 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers 1AS-2 Read, write and interpret equations containing addition (+), subtraction (−) and equals (=) symbols, and relate additive expressions and equations to real-life contexts <ul style="list-style-type: none"> <li>add and subtract one-digit and two-digit numbers to 20, including zero</li> <li>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = \square - 9</math></li> </ul>					<b>Geometry: Shape</b> 1G-1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. 1G-2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. <ul style="list-style-type: none"> <li>recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]</li> <li>recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</li> </ul>	C n o d ic

Year 1	1	2	3	4	5	6	7	8	9	10	11	12	
Spring	<b><u>Number: Place Value (within 20)</u></b> NPV-1 Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = <ul style="list-style-type: none"><li>count numbers to 100 in numerals;</li><li>count in multiples of twos, fives and tens</li><li>identify and represent numbers using objects and pictorial representations</li><li>read and write numbers to 100 in numerals</li><li>read and write numbers from 1 to 20 in numerals and words</li><li>given a number, identify one more and one less</li></ul>			<b><u>Number: Addition and subtraction (within 10)</u></b> 1NF–1 Develop fluency in addition and subtraction facts within 10 1AS-2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts 1AS-2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts <ul style="list-style-type: none"><li>add and subtract one-digit and two-digit numbers to 20, including zero</li><li>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = \square - 9</math></li></ul>			<b><u>Number: Place Value (within 50)</u></b> NPV-1 Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = <ul style="list-style-type: none"><li>count numbers to 100 in numerals;</li><li>count in multiples of twos, fives and tens</li><li>identify and represent numbers using objects and pictorial representations</li><li>read and write numbers to 100 in numerals</li><li>read and write numbers from 1 to 20 in numerals and words</li><li>given a number, identify one more and one less</li></ul>			<b><u>Measurement: Length and Height</u></b> Compare, describe and solve practical problems for: <ul style="list-style-type: none"><li>lengths and heights</li></ul> Measure and begin to record: <ul style="list-style-type: none"><li>lengths and heights</li></ul>		<b><u>Measurement: Mass and Volume</u></b> Compare, describe and solve practical problems for: <ul style="list-style-type: none"><li>mass/weight</li><li>capacity and volume</li></ul> Measure and begin to record: <ul style="list-style-type: none"><li>mass/weight</li><li>capacity and volume</li></ul>	



Year 1	1	2	3	4	5	6	7	8	9	10	11	12		
Summer	<b><u>Number: Multiplication and Division</u></b> <b>1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.</b> <ul style="list-style-type: none"><li>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</li></ul>			<b><u>Number: Fractions</u></b> <ul style="list-style-type: none"><li>recognise, find and name a half as one of two equal parts of an object, shape or quantity</li><li>recognise, find and name a quarter as one of four equal parts of an object, shape or quantity</li></ul>		<b><u>Geometry: Shape</u></b> <b>1G-1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.</b> <b>1G-2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations.</b> <ul style="list-style-type: none"><li>describe position, direction and movement, including whole, half, quarter and three-quarter turns</li></ul>		<b><u>Number: Place Value (within 100)</u></b> <b>NPV-1 Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</b> <b>NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using &lt; &gt; and =</b> <ul style="list-style-type: none"><li>count numbers to 100 in numerals;</li><li>count in multiples of twos, fives and tens</li><li>identify and represent numbers using objects and pictorial representations</li><li>read and write numbers to 100 in numerals</li><li>read and write numbers from 1 to 20 in numerals and words</li><li>given a number, identify one more and one less</li></ul>		<b><u>Measurement: Money</u></b> <ul style="list-style-type: none"><li>recognise and know the value of different denominations of coins and notes</li></ul>		<b><u>Measurement: Time</u></b> Compare, describe and solve practical problems for: <ul style="list-style-type: none"><li>time</li></ul> Measure and begin to record: <ul style="list-style-type: none"><li>time (hours, minutes, seconds)</li></ul>		Consolidation

Year 2	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	<b>Number: Place Value</b> <b>2NPV-1</b> Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning. <b>2NPV-2</b> Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10. <ul style="list-style-type: none"> <li>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward</li> <li>read and write numbers to at least 100 in numerals and in words</li> <li>identify, represent and estimate numbers using different representations, including the number line</li> <li>recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</li> <li>use place value and number facts to solve problems</li> </ul>				<b>Number: Addition and Subtraction</b> <b>2NF-1</b> Secure fluency in addition and subtraction facts within 10, through continued practice <b>2AS-1</b> Add and subtract across 10 <b>2AS-3</b> Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. <b>2AS-4</b> Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers <ul style="list-style-type: none"> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> <li>a two-digit number and ones</li> <li>a two-digit number and tens</li> <li>two two-digit numbers</li> <li>adding three one-digit numbers</li> </ul> </li> <li>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</li> </ul>				<b>Geometry: Shape</b> <b>2G-1</b> Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. <ul style="list-style-type: none"> <li>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>compare and sort common 2-D shapes and everyday objects</li> <li>recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</li> <li>compare and sort common 3-D shapes and everyday objects</li> </ul>			

Year 2	1	2	3	4	5	6	7	8	9	10	11	12
Spring	<b>Measure: Money</b> <b>2AS-2</b> Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?" <b>2AS-4</b> Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers <ul style="list-style-type: none"> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>find different combinations of coins that equal the same amounts of money</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>		<b>Number: Multiplication and Division</b> <b>2MD-1</b> Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. <b>2MD-2</b> Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division). <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\cdot</math>), division (<math>\div</math>) and equals (=) signs</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>					<b>Measurement: Length and Height</b> <b>2AS-4</b> Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers <ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (<math>^{\circ}\text{C}</math>); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>		<b>Measurement: Mass, Capacity, Temperature</b> <ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (<math>^{\circ}\text{C}</math>); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>		

Year 2	1	2	3	4	5	6	7	8	9	10	11	12
Summer	<b><u>Number: Fractions</u></b> <ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>Recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></li> <li>write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3</li> </ul>			<b><u>Measurement: Time</u></b> <ul style="list-style-type: none"> <li>compare and sequence intervals of time</li> <li>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</li> <li>know the number of minutes in an hour and the number of hours in a day</li> </ul>			<b><u>Statistics</u></b> <ul style="list-style-type: none"> <li>interpret and construct simple pictograms, tally charts, block diagrams and simple 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>		<b><u>Geometry: Position and Direction</u></b> <ul style="list-style-type: none"> <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>		Consolidation	



Year 3	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	<b>Number: Place Value</b> <b>3NPV-1</b> Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10 <b>3NPV-2</b> Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning <b>3NPV-3</b> Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10 <b>3NPV-4</b> Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts <ul style="list-style-type: none"> <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>identify, represent and estimate numbers using different representations</li> <li>read and write numbers up to 1000 in numerals and in words</li> <li>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li> <li>compare and order numbers up to 1000</li> <li>solve number problems and practical problems involving these ideas</li> </ul>			<b>Number: Addition and Subtraction</b> <b>3NF-1</b> Secure fluency in addition and subtraction facts that bridge 10, through continued practice <b>3AS-1</b> Calculate complements to 100 <b>3AS-2</b> Add and subtract up to three-digit numbers using columnar methods <b>3AS-3</b> Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction <ul style="list-style-type: none"> <li>add and subtract numbers mentally, including: <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds</li> </ul> </li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</li> </ul>				<b>Number: Multiplication and Division (a)</b> <b>3NF-2</b> Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number <b>3MD-1</b> Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects</li> </ul>				

Year 3	1	2	3	4	5	6	7	8	9	10	11	12
Spring	<b><u>Number: Multiplication and Division (b)</u></b> <b>3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10)</b> <b>3MD-1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division</b> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> </ul>			<b><u>Measurement: Length and Perimeter</u></b> <ul style="list-style-type: none"> <li>measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</li> <li>measure the perimeter of simple 2-D shapes</li> </ul>			<b><u>Number: Fractions (a)</u></b> <b>3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10)</b> <b>3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts</b> <b>3F-3 Reason about the location of any fraction within 1 in the linear number system</b> <ul style="list-style-type: none"> <li>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</li> <li>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li> <li>recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>compare and order unit fractions, and fractions with the same denominators</li> <li>solve problems that involve all of the above</li> </ul>			<b><u>Measurement: Mass and Capacity</u></b> <ul style="list-style-type: none"> <li>measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</li> </ul>		

Year 3	1	2	3	4	5	6	7	8	9	10	11	12
Summer	<p><b>Number: Fractions (b)</b> <b>3F-2 Find unit fractions of quantities using known division facts (multiplication tables fluency)</b> <b>3F-4 Add and subtract fractions with the same denominator, within 1</b></p> <ul style="list-style-type: none"><li>• add and subtract fractions with the same denominator within one whole [for example, <math>5/7 + 1/7 = 6/7</math>]]</li><li>• solve problems that involve the above</li></ul>	<p><b>Measurement: Money</b> <b>3AS-1 Calculate complements to 100</b> <b>3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure.</b> <b>Understand and use the commutative property of addition, and understand the related property for subtraction</b></p> <ul style="list-style-type: none"><li>• add and subtract amounts of money to give change, using both £ and p in practical contexts</li></ul>	<p><b>Measurement: Time</b></p> <ul style="list-style-type: none"><li>• tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</li><li>• estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</li><li>• know the number of seconds in a minute and the number of days in each month, year and leap year</li><li>• compare durations of events [for example to calculate the time taken by particular events or tasks]</li></ul>	<p><b>Geometry: Shape</b> <b>3G-1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations</b> <b>3G-2 Draw polygons by joining marked points, and identify parallel and perpendicular sides</b></p> <ul style="list-style-type: none"><li>• draw 2-D shapes</li><li>• make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li><li>• recognise angles as a property of shape or a description of a turn</li><li>• identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle</li><li>• identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li></ul>	<p><b>Statistics</b></p> <ul style="list-style-type: none"><li>• interpret and present data using bar charts, pictograms and tables</li><li>• solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables</li></ul>	Consolidation						

Year 4	1	2	3	4	5	6	7	8	9	10	11	12		
Autumn	<p><b>Number: Place Value</b></p> <p><b>4NPV-1</b> Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100</p> <p><b>4NPV-2</b> Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning</p> <p><b>4NPV-3</b> Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each</p> <p><b>4NPV-4</b> Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts</p> <ul style="list-style-type: none"><li>count in multiples of 6, 7, 9, 25 and 1000</li><li>count backwards through zero to include negative numbers</li><li>identify, represent and estimate numbers using different representations</li><li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value</li><li>find 1000 more or less than a given number</li><li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li><li>order and compare numbers beyond 1000</li><li></li><li>round any number to the nearest 10, 100 or 1000</li><li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li></ul>				<p><b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"><li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li><li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li></ul>			<p><b>Measurement: Area</b></p> <ul style="list-style-type: none"><li>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li><li>find the area of rectilinear shapes by counting squares</li></ul>		<p><b>Number: Multiplication and Division (a)</b></p> <p><b>4NF-1</b> Recall multiplication and division facts up to 12 x 12 and recognise products in multiplication tables as multiples of the corresponding number</p> <p><b>4NF-2</b> Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context</p> <p><b>4NF-3</b> Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)</p> <p><b>4MD-2</b> Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication</p> <ul style="list-style-type: none"><li>count in multiples of 6, 7, 9, 25 and 1000</li><li>recall multiplication and division facts for multiplication tables up to 12 x 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 three numbers</li><li>recognise and use factor pairs and commutativity in mental calculations</li></ul>				consolidation

Year 4	1	2	3	4	5	6	7	8	9	10	11	12
Spring	<b>Number: Multiplication and Division (b)</b> 4NF-1 Recall multiplication and division facts up to 12 x 12 and recognise products in multiplication tables as multiples of the corresponding number 4NF-2 Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context 4NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100) 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100 4MD-1 Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size 4MD-3 Understand and apply the distributive property of multiplication <ul style="list-style-type: none"><li>recall multiplication and division facts for multiplication tables up to 12 x 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 three 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 one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li></ul>			<b>Measurement: Length and Perimeter</b> 4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons <ul style="list-style-type: none"><li>Convert between different units of measure [for example, kilometre to metre; hour to minute]</li><li>estimate, compare and calculate different measures</li><li>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li><li>find the area of rectilinear shapes by counting squares</li></ul>		<b>Number: Fractions</b> 4F-1 Reason about the location of mixed numbers in the linear number system 4F-2 Convert mixed numbers to improper fractions and vice versa 4F-3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers <ul style="list-style-type: none"><li>recognise and show, using diagrams, families of common equivalent fractions</li><li>add and subtract fractions with the same denominator</li><li>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</li><li>solve simple measure and money problems involving fractions and decimals to two decimal places</li></ul>				<b>Number: Decimals (a)</b> 4NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100) <ul style="list-style-type: none"><li>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</li><li>recognise and write decimal equivalents of any number of tenths or hundredths</li><li>•recognise and write decimal equivalents to 14,12,34</li><li>•round decimals with one decimal place to the nearest whole number</li><li>•compare numbers with the same number of decimal places up to two decimal places</li><li>solve simple measure and money problems involving fractions and decimals to two decimal places</li></ul>		

Year 4	1	2	3	4	5	6	7	8	9	10	11	12
Summer	<b><u>Number: Decimals (b)</u></b> <ul style="list-style-type: none"><li>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</li><li>recognise and write decimal equivalents of any number of tenths or hundredths</li><li>recognise and write decimal equivalents to 14,12,34</li><li>round decimals with one decimal place to the nearest whole number</li><li>compare numbers with the same number of decimal places up to two decimal places</li><li>solve simple measure and money problems involving fractions and decimals to two decimal places</li></ul>	<b><u>Measurement: Money</u></b> <ul style="list-style-type: none"><li>estimate, compare and calculate different measures, including money in pounds and pence</li></ul>	<b><u>Measurement: Time</u></b> <ul style="list-style-type: none"><li>Convert between different units of measure [for example, kilometre to metre; hour to minute]</li><li>estimate, compare and calculate different measures</li><li>read, write and convert time between analogue and digital 12-and 24-hour clocks</li><li>solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</li></ul>	c o n s o li d a ti o n	<b><u>Geometry: Shape</u></b> <b>4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant</b> <b>4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons</b> <b>4G-3 Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry</b> <ul style="list-style-type: none"><li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li><li>identify lines of symmetry in 2-D shapes presented in different orientations</li><li>identify acute and obtuse angles and compare and order angles up to two right angles by size</li><li>identify lines of symmetry in 2-D shapes presented in different orientations</li><li>complete a simple symmetric figure with respect to a specific line of symmetry</li></ul>	<b><u>Statistics</u></b> <ul style="list-style-type: none"><li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li><li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li></ul>	<b><u>Geometry: Position and Direction</u></b> <ul style="list-style-type: none"><li>describe positions on a 2-D grid as coordinates in the first quadrant</li><li>describe movements between positions as translations of a given unit to the left/right and up/down</li><li>plot specified points and draw sides to complete a given polygon</li></ul>					



Year 5	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	<b>Number: Place Value</b> <ul style="list-style-type: none"><li>interpret negative numbers in context</li><li>round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</li><li>solve number problems and practical problems that involve all of the above</li><li>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li><li>count forwards and backwards with positive and negative whole numbers, including through zero</li><li>read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit</li><li>read Roman numerals to 1000 (M) and recognise years written in Roman numerals</li></ul>			<b>Number: Addition and Subtraction</b> <ul style="list-style-type: none"><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>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 and a combination of these, including understanding the meaning of the equals sign</li></ul>		<b>Number: Multiplication and Division (a)</b> <p><b>5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice</b></p> <p><b>5NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth)</b></p> <p><b>5MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size</b></p> <p><b>5MD-2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors</b></p> <ul style="list-style-type: none"><li>identify multiples and factors, including finding all factor pairs of a number, and common factors of two 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>recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</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 1000</li><li>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li><li>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li></ul>			<b>Number: Fractions (a)</b> <p><b>5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system</b></p> <ul style="list-style-type: none"><li>identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li><li>recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number [for example, 2/5+4/5=6/5=11/5]</li><li>compare and order fractions whose denominators are all multiples of the same number</li><li>add and subtract fractions with the same denominator and denominators that are multiples of the same number</li><li>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li></ul>			

Year 5	1	2	3	4	5	6	7	8	9	10	11	12
Spring	<b>Number: Multiplication and Division (b)</b> 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice 5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method 5MD-4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context <ul style="list-style-type: none"><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 1000</li><li>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li><li>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li><li>solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li></ul>			<b>Number: Fractions (b)</b> 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice 5F-1 Find non-unit fractions of quantities <ul style="list-style-type: none"><li>add and subtract fractions with the same denominator and denominators that are multiples of the same number</li><li>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li></ul>		<b>Number: Decimals and Percentages</b> 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01 5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. 5NPV-3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. 5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts 5NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) 5F-3 Recall decimal fraction equivalents for 1/4, 1/2 , 1/5 and 1/10 and for multiples of these proper fractions <ul style="list-style-type: none"><li>read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li><li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li><li>round decimals with two decimal places to the nearest whole number and to one decimal place</li><li>read, write, order and compare numbers with up to three decimal places</li><li>recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal</li><li>solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25</li></ul>			<b>Measure: Perimeter and Area</b> 5G-2 Compare areas and calculate the area of rectangles (including squares) using standard units <ul style="list-style-type: none"><li>convert between different units of metric measure</li><li>understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li><li>use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li><li>measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li><li>calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes</li><li>estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]</li></ul>		<b>Statistics</b> <ul style="list-style-type: none"><li>complete and interpret information in tables including timetables</li><li>solve comparison sum and difference problems using information presented in a line graph</li></ul>	

Year 5	1	2	3	4	5	6	7	8	9	10	11	12	
Summer	<b>Geometry: Shape</b> <b>5G-1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size</b> <ul style="list-style-type: none"><li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li><li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li><li>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li></ul>			<b>Geometry: Position and Direction</b> <ul style="list-style-type: none"><li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li><li>draw given angles, and measure them in degrees</li><li>identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°</li><li>identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li></ul>		<b>Number: Decimals</b> <b>5MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size</b> <ul style="list-style-type: none"><li>read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li><li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li><li>round decimals with two decimal places to the nearest whole number and to one decimal place</li><li>read, write, order and compare numbers with up to three decimal places</li><li>use all four operations to solve problems involving measure [for example, money]</li></ul>		<b>Negative Numbers</b> <ul style="list-style-type: none"><li>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li><li>count forwards and backwards with positive and negative whole numbers, including through zero</li></ul>		<b>Measure: Converting Measures</b> <b>5NPV-5 Convert between units of measure, including using common decimals and fractions.</b> <ul style="list-style-type: none"><li>convert between different units of metric measure</li><li>understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li><li>use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li><li>solve problems involving converting between units of time</li></ul>		<b>Measure: Volume</b> <ul style="list-style-type: none"><li>convert between different units of metric measure</li><li>understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li><li>use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li><li>measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li><li>calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes</li><li>estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]</li></ul>	

Year 6	1	2	3	4	5	6	7	8	9	10	11	12		
Autumn	<b>Number: Place Value</b> 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning 6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts <ul style="list-style-type: none"><li>• read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit</li><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 zero</li><li>• solve number and practical problems that involve all of the above</li></ul>		<b>Number: Addition, Subtraction, Multiplication and Division</b> 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding <ul style="list-style-type: none"><li>• perform mental calculations, including with mixed operations and large numbers</li><li>• use their knowledge of the order of operations to carry out calculations involving the four operations</li><li>• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li><li>• identify common factors, common multiples and prime numbers</li><li>• use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li><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>• solve problems involving addition, subtraction, multiplication and division</li><li>• use their knowledge of the order of operations to carry out calculations involving the four operations</li></ul>					<b>Number: Fractions (a)</b> 6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions 6F-2 Express fractions in a common denominator and use this to compare fractions that are similar in value 6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denominator as a comparison strategy <ul style="list-style-type: none"><li>• use common factors to simplify fractions; use common multiples to express fractions in the same denomination</li><li>• compare and order fractions, including fractions &gt; 1</li><li>• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li><li>• multiply simple pairs of proper fractions, writing the answer in its simplest form [for example,1/4×1/2=1/8]</li><li>• divide proper fractions by whole numbers [for example 1/3÷2=1/6]</li></ul>			<b>Number: Fractions (b)</b> 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts <ul style="list-style-type: none"><li>• add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li><li>• multiply simple pairs of proper fractions, writing the answer in its simplest form [for example,1/4×1/2=1/8]</li><li>• divide proper fractions by whole numbers [for example 1/3÷2=1/6]</li></ul>		<b>Measure: Converting Units</b> <ul style="list-style-type: none"><li>• solve problems involving the calculation and conversion of units of measure, using decimal notation to 3 d.p. where appropriate</li><li>• 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 d.p.</li><li>• convert between miles and kilometres</li><li>• use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa</li></ul>	

Year 6	1	2	3	4	5	6	7	8	9	10	11	12
Spring	<b>Number: Ratio</b> <b>6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number)</b> <b>6AS/MD-3 Solve problems involving ratio relationships</b> <ul style="list-style-type: none"> <li>• solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> <li>• solve problems involving the calculation/use of percentages for comparison</li> <li>• solve problems involving similar shapes where the scale factor is known or can be found</li> <li>• solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ul>		<b>Number: Algebra</b> <b>6AS/MD-4 Solve problems with 2 unknowns</b> <ul style="list-style-type: none"> <li>• use simple formulae</li> <li>• generate and describe linear number sequences</li> <li>• express missing number problems algebraically</li> <li>• find pairs of numbers that satisfy an equation with two unknowns</li> <li>• enumerate possibilities of combinations of two variables</li> </ul>		<b>Number: Decimals</b> <b>6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts</b> <ul style="list-style-type: none"> <li>• identify the value of each digit in numbers given to three decimal places</li> <li>• associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38]</li> <li>• recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ul>		<b>Number: Fractions, Decimals and Percentages</b> <ul style="list-style-type: none"> <li>• associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38]</li> <li>• recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ul>		<b>Measure: Area, Perimeter and Volume</b> <b>6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems</b> <ul style="list-style-type: none"> <li>• recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>• recognise when it is possible to use formulae for area and volume of shapes</li> <li>• calculate the area of parallelograms and triangles</li> <li>• 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</li> </ul>		<b>Statistics</b> <ul style="list-style-type: none"> <li>• interpret and construct pie charts and line graphs and use these to solve problems</li> <li>• calculate and interpret the mean as an average</li> </ul>	

Year 6	1	2	3	4	5	6	7	8	9	10	11	12
Summer	<b><u>Geometry: Shape</u></b> <b>6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems</b> <ul style="list-style-type: none"> <li>draw 2-D shapes using given dimensions and angles</li> <li>compare and classify geometric shapes based on their properties and sizes</li> <li>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> <li>recognise, describe and build simple 3-D shapes, including making nets</li> <li>find unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> </ul>			<b><u>Geometry: Position and Direction</u></b> <ul style="list-style-type: none"> <li>describe positions on the full coordinate grid (all four quadrants)</li> <li>draw and translate simple shapes on the coordinate plane, and reflect them in the axes</li> </ul>	<b><u>Themed projects, Consolidation and Problem Solving</u></b>							