



		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Nursery	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Can say some number names in sequence.</li> <li>Joins in with finger rhymes with numbers.</li> <li>Notices change in amounts in a group up to 3 in songs and rhyme.</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Notices patterns, e.g. stripes</li> <li>Starting to arrange objects in repeating patterns.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Uses words like big and little and starting to understand about grouping by size.</li> <li>Explores stacking and filling pots and cups.</li> <li>Can complete inset puzzles.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Attempts to count in every day situations.</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Starting to compare amounts using vocab lots, more and same.</li> <li>Anticipates what is happening next in a familiar routine.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Can climb and squeeze self into different spaces.</li> <li>Can sort a collection of objects such as the clothes from the washing or shells or buttons .</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Develop fast recognition of up to 3 objects, without counting ('subitising').</li> <li>Say one number for each item in order: 1,2,3,4,5 - Can count small sets saying one number name for each item using 1:1 correspondence.</li> <li>Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Knows the order of some key things that happen each day and what is coming next.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.</li> <li>Notices shapes in the environment, like circles for road signs or spheres for balls.</li> <li>Understand position through words alone – for example, "The bag is under the table," – with no pointing.</li> <li>Can describe the position of things using words such as under and next to.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Show 'finger numbers' up to 5.</li> <li>Experiments with own symbols and marks to represent amounts .</li> <li>Link numerals and amounts: eg. showing the right number of objects to match the numeral, up to 5.</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Make comparisons between objects relating to size, length, weight and capacity.</li> <li>Compares size and weight with gesture and some language such as heavy, tall, short, small.</li> </ul> <p><b>Expressive Arts and Design:</b></p> <ul style="list-style-type: none"> <li>Play with different building materials like wooden bricks, Duplo, boxes, and mobilo and talks about what they are making.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Recite numbers past 5- Can count from 1-10 in the correct order.</li> <li>Recognises numerals 1-10 and can match the numeral to a group of things.</li> <li>Can estimate how many things there are and checks by counting.</li> <li>Compare quantities using language: 'more than', 'fewer than'</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Extend and create ABAB patterns – e.g. stick, leaf, stick, leaf.</li> <li>Notice and correct an error in a repeating pattern.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Beginning to use 2D and 3D shape names like "square", "triangle", cube" and "cylinder" and mathematical language like "corner", "side", "face" and "edge".</li> <li>Describe a familiar route.</li> <li>Discuss routes and locations, using words like 'in front of' and 'behind'</li> <li>Describes a route using spatial words such as under, behind, on or in when completing an obstacle course.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>Experiment with their own symbols and marks as well as numerals.</li> <li>Solve real world mathematical problems with numbers up to 5.</li> </ul> <p><b>Numerical Patterns:</b></p> <ul style="list-style-type: none"> <li>Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'</li> <li>Starts exploring the idea of 1 more and 1 fewer.</li> <li>Interest in pattern of numbers on a 100 square.</li> <li>Beginning to know the days of the week and when things happen.</li> </ul> <p><b>Shape, Space and Measure:</b></p> <ul style="list-style-type: none"> <li>Select shapes appropriately: flat surfaces for building, a triangular prism for a roof.</li> <li>Combine shapes to make new ones</li> <li>Make comparisons between objects relating to size, length, weight and capacity- <i>Can say which object is heavy and which is light when holding 2 objects.</i></li> <li>Can say which bottle is full and which bottle is empty.</li> <li>Can use vocab related to length and height e.g. longer, shorter, or taller.</li> </ul>

						<ul style="list-style-type: none"> <li>• Uses coins in shop play and beginning to talk about money.</li> </ul> <p><b>Expressive Arts and Design:</b></p> <ul style="list-style-type: none"> <li>• Create closed shapes with continuous lines and begin to use these shapes to represent objects.</li> <li>• Draw with increasing complexity and detail, such as representing a face with a circle and including details.</li> </ul>
<b>Reception</b>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Match and sort- match pairs of a range of objects, sort objects into sets by their shape, or colour.</li> <li>• Compare amounts- can identify which sets have more, fewer or are equal.</li> <li>• Count objects, actions and sounds</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>• Key times of day- knows when it is time for the register, phonics, lunch, story time etc.</li> <li>• Classroom routines- refers to visual timetable to know what is happening now and next, and engages in classroom routines such as sitting for story time, tidy up times.</li> <li>• Positional language- understands key positional language, on top, under, next to.</li> <li>• Compare size, mass and capacity- compare and order objects by size</li> <li>• Compares heavy and light items.</li> <li>• Understands full and empty.</li> <li>• Use language of size- big and little, large and small,</li> <li>• May use the language tall, long and short to compare.</li> <li>• Continue, copy and create repeating patterns.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Representing 1,2 and 3</li> <li>• Makes own collections of 1,2 and 3 objects.</li> <li>• Match number names to numerals and quantities up to 3.</li> <li>• Counts up to 3 objects in different arrangements using 1:1 correspondence.</li> <li>• Recognises that the last number they say is the cardinal number.</li> <li>• Can subitise numbers to 3.</li> <li>• Comparing 1,2, and 3- begins to understand as we count each number is one more than the number before.</li> <li>• Begins to understand as we count back each number is one less than the previous number.</li> <li>• Makes comparisons of numbers to 3 in their play.</li> <li>• Composition of 1,2 and 3- understands that all numbers are made up of smaller numbers.</li> <li>• Explores and notices the different compositions of 2 and 3.</li> <li>• Representing numbers to 5- Can count forwards and backwards to 5, accurately using the counting principles.</li> <li>• Subitise up to 5 objects.</li> <li>• Count up to 5 objects to find out how many there are.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Introducing zero- Recognises that the number 0 means there is nothing there or something is all gone.</li> <li>• Comparing numbers to 5- continues to understand when comparing quantities that one quantity can be one more, the same as or fewer than another quantity.</li> <li>• Composition of 4 and 5- Explores and notices the different compositions of 4 and 5.</li> <li>• Represents 6,7 and 8 in a variety of ways.</li> <li>• Can count out a number of objects from a larger group.</li> <li>• Combining 2 amounts- can combine 2 groups to find out how many there are altogether.</li> <li>• Making pairs- knows that a pair is 2.</li> <li>• Arranges small quantities in to pairs.</li> <li>• Notices some quantities have an odd one out.</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>• Compare length, weight and capacity.</li> <li>• Compare mass- make direct comparisons to compare heavy and light items.</li> <li>• Can estimate which item feels heaviest and use a balance scale to check.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Counting to 9 and 10- represents 9 and 10 in different ways.</li> <li>• Arranges 9 or 10 items in to small groups.</li> <li>• Notices a 10 frame is full when there are 10 objects on it.</li> <li>• Uses fingers to subitise 9 and 10.</li> <li>• Comparing numbers to 10- continues to make comparisons by lining items up with 1:1 correspondence.</li> <li>• Explore the composition of numbers to 10.</li> <li>• Compares 2 quantities to 10.</li> <li>• Starts to order 3 or more quantities.</li> <li>• Automatically recalls number bonds for numbers 0–5 and some to 10.</li> <li>• Bonds to 10- Explores number bonds to 10 using real objects.</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>• 3D shapes- explores and manipulates 3D shapes through block play.</li> <li>• Explores which shapes stack and which shapes roll and why.</li> <li>• Knows the names of some 3D shapes, e.g. cube, cuboid, cylinder, cone.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Count beyond 10.</li> <li>• Building numbers beyond 10- Identifies numbers to 20.</li> <li>• Recognises that numbers 1- 9 repeat after every full set of 10.</li> <li>• Counting patterns beyond 10- counts on and back beyond 10.</li> <li>• Can count on or back from different starting points.</li> <li>• Adding more.</li> <li>• Taking away- Uses real objects to see that the quantity of a group can be changed by taking items away.</li> <li>• Can subitise small quantities</li> <li>• Practises and consolidates counting on and back within 10.</li> <li>• Continues noticing similarities and differences as they match and sort objects in new contexts.</li> <li>• Continues comparing and ordering quantities and measures.</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>• Spatial reasoning- Can complete jigsaws and shape puzzles.</li> </ul>	<p><b>Number:</b></p> <ul style="list-style-type: none"> <li>• Doubling- Knows that double means twice as many.</li> <li>• Use a range of objects to 'build' doubles e.g. 10 frames and dominoes.</li> <li>• Sharing and grouping- Can share items equally.</li> <li>• Recognises and makes equal groups.</li> <li>• Can make suggestions for how they can resolve having an odd amount that cannot be shared equally.</li> <li>• Even and odd- Begins to understand some quantities can be shared equally in to 2 groups and some won't.</li> <li>• May notice some quantities can be grouped in to pairs and some will have one left over.</li> <li>• Deepening understanding.</li> <li>• Patterns and relationships- Explores and investigates relationships between numbers and shapes.</li> <li>• Continues to copy, continue and create a widening range of repeating patterns and symmetrical constructions.</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>• Spatial reasoning- replicates simple constructions and models.</li> </ul>

	<ul style="list-style-type: none"> <li>Exploring pattern- can copy, continue and create their own simple repeating patterns.</li> <li>Explore AB patterns in a range of contexts including shapes, colours, sizes, action and sounds.</li> </ul> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Use vocabulary to explain what they notice when comparing classroom objects.</li> <li>Learn new vocabulary.</li> </ul>	<ul style="list-style-type: none"> <li>Match number names to numerals and quantities up to 5.</li> <li>Represents up to 5 objects on a 5 frame.</li> <li>Understand the 'one more than/one less than' relationship between consecutive numbers.</li> <li>One more and one less- uses 5 frame and predicts how many there will be if they add one more or take one away.</li> </ul> <p><b>Measure, shape and spatial thinking:</b></p> <ul style="list-style-type: none"> <li>Circles and triangles- Knows a circle has one curved side and a triangle has 3 straight sides.</li> <li>Recognises circles and triangles in the environment, on everyday objects and items in the classroom and outdoors.</li> <li>Begin to use positional language to describe how items are positioned in relation to other items.</li> <li>Build journeys and obstacle courses, travelling through them.</li> <li>Knows that squares and rectangles have 4 sides and 4 corners.</li> <li>Recognises squares and rectangles in the environment, on everyday objects and items in the classroom and outdoors.</li> <li>Time- talks about night and day.</li> <li>Orders key events in their daily routines.</li> <li>Uses language to describe when events happen e.g. day, night, morning, afternoon, before after, today, tomorrow.</li> <li>Begins to measure time in simple ways e.g. counting the number of sleeps to an important event.</li> </ul>	<ul style="list-style-type: none"> <li>Uses vocabulary related to mass- heavy, heavier than, heaviest, light, lighter than, lightest.</li> <li>Understands that items that are bigger are not always heavier.</li> <li>Compare capacity- builds on understanding of full and empty by learning about half full, nearly full and nearly empty.</li> <li>Explores capacity using a range of resources- water, sand, rice and beans.</li> <li>Uses a range of different sized and shaped containers.</li> <li>Uses language tall, thin, narrow, wide and shallow.</li> <li>Length and height- Begins to use language to describe objects length and height.</li> <li>Uses specific mathematical vocabulary relating to length (longer, shorter).</li> <li>Uses specific mathematical vocabulary relating to height (taller, shorter).</li> <li>Uses specific mathematical vocabulary relating to breadth (wider, narrower).</li> <li>Time- continues to order and sequence important times in their day using language such as now, before, later, soon, after, then and next.</li> <li>Uses vocabulary yesterday, today and tomorrow.</li> <li>Can describe significant events in their life.</li> <li>Can talk about events they are looking forward to.</li> </ul>	<ul style="list-style-type: none"> <li>Explores similarities and differences between 3D shapes.</li> <li>Spatial awareness.</li> <li>Pattern- explores more complex patterns, using items more than once in each repeat, e.g. ABB, AAB, AABB, AABBB.</li> </ul>	<ul style="list-style-type: none"> <li>Can explain why they have chosen a particular shape and why a different shape would not fit.</li> <li>Fits shapes together and breaks shapes apart.</li> <li>Explores different shapes they can make by combining a set of given shapes.</li> <li>Select, rotate and manipulate shapes to develop spatial reasoning skills.</li> <li>Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.</li> </ul>	<ul style="list-style-type: none"> <li>Can use positional language to describe where objects are in relation to other items.</li> <li>Visualise and build.</li> <li>Mapping- understands we can make maps and plans to represent places.</li> </ul>
<b>Year 1</b>	<p><b>Number: Number &amp; Place Value (within 10)</b></p> <ul style="list-style-type: none"> <li>Count to ten, forwards and backwards, beginning with 0</li> </ul>	<p><b>Number: Number &amp; Place Value (within 20)</b></p>	<p><b>Number: Addition &amp; Subtraction (within 20)</b></p>	<p><b>Measurement: Length &amp; Height</b></p> <ul style="list-style-type: none"> <li>Compare, describe and solve practical problems for: lengths and heights for</li> </ul>	<p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Count in multiples of twos, fives and tens.</li> </ul>	<p><b>Measurement: Money</b></p> <ul style="list-style-type: none"> <li>Recognise and know the value of different denominations of coins and notes.</li> </ul>

	<p>or 1, or from any given number.</p> <ul style="list-style-type: none"> <li>Count, read and write numbers to 10 in numerals.</li> <li>Given a number, identify one more or one less.</li> </ul> <p><b>Number: Addition &amp; Subtraction (within 10)</b></p> <ul style="list-style-type: none"> <li>Represent and use number bonds and related subtraction facts (within 10)</li> <li>Add and subtract one digit numbers (to 10), including zero.</li> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</li> <li>Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.</li> </ul>	<ul style="list-style-type: none"> <li>Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number.</li> <li>Count, read and write numbers from 1 to 20 in numerals.</li> <li>Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.</li> </ul> <p><b>Geometry: Shape</b></p> <ul style="list-style-type: none"> <li>Recognise and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cubes, cuboids, pyramids and spheres.</li> </ul>	<ul style="list-style-type: none"> <li>Represent and use number bonds and related subtraction facts within 20.</li> <li>Add and subtract one digit and two digit numbers to 20, including zero.</li> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</li> <li>Solve one step problems that involve addition and subtraction.</li> </ul> <p><b>Number: Number &amp; Place Value (within 50)</b></p> <ul style="list-style-type: none"> <li>Count to 50 forwards and backwards, beginning with 0 or 1, or from any number.</li> <li>Count, read and write numbers from 1-50 in numerals.</li> <li>Identify and represent numbers using objects and pictorial representations.</li> <li>Count in 2's and 5's</li> </ul>	<p>example, long/short, longer/shorter, tall/short, double/half</p> <ul style="list-style-type: none"> <li>Measure and begin to record lengths and heights.</li> </ul> <p><b>Measurement: Weight &amp; Volume</b></p> <ul style="list-style-type: none"> <li>Compare, describe and solve practical problems for mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]</li> <li>Measure and begin to record mass/weight, capacity and volume.</li> </ul>	<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> <p><b>Number: Fractions</b></p> <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> <p><b>Geometry: Position &amp; Direction</b></p> <ul style="list-style-type: none"> <li>Describe position, direction and movement, including whole, half, quarter and three-quarter turns.</li> </ul> <p><b>Number: Number &amp; Place Value (with 100)</b></p> <ul style="list-style-type: none"> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</li> <li>Read and write numbers from 1 to 20 in words.</li> <li>Count, read and write numbers from 1-100 in numerals.</li> <li>Read and write numbers from 1 to 20 in numerals and words.</li> <li>Count in multiples of 2's, 5's and 10's.</li> <li>Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least.</li> </ul>	<ul style="list-style-type: none"> <li>Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.</li> </ul> <p><b>Measurement: Time</b></p> <ul style="list-style-type: none"> <li>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</li> <li>Recognise and use language relating to dates, including days of the week, weeks, months and years.</li> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.</li> </ul>
<b>Year 2</b>	<p><b>Number: Number &amp; Place Value</b></p> <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>Recognise the place value of each digit in a two digit number (tens, ones)</li> </ul>	<p><b>Number: Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their</li> </ul>	<p><b>Measurement: Money</b></p> <ul style="list-style-type: none"> <li>Recognise and use symbols of 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> </ul>	<p><b>Measurement: Length &amp; Height</b></p> <ul style="list-style-type: none"> <li>Estimate and measure length/height in any direction (m/cm) using rulers.</li> <li>Compare and order lengths using &gt;, &lt; and =</li> </ul>	<p><b>Number: Fractions</b></p> <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>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and</li> </ul>	<p><b>Statistics</b></p> <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</li> </ul>

	<ul style="list-style-type: none"> <li>Identify, represent and estimate numbers to 100 using different representations including the number line.</li> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> <li>Read and write numbers to at least 100 in numerals and words.</li> <li>Use place value and number facts to solve problems.</li> </ul> <p><b>Number: Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one digit numbers.</li> </ul>	<p>increasing knowledge of mental and written methods.</p> <ul style="list-style-type: none"> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> </ul> <p><b>Geometry: Properties of Shapes</b></p> <ul style="list-style-type: none"> <li>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</li> <li>Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</li> <li>Identify 2D shapes on the surface of 3D shapes</li> <li>Compare and sort common 2D and 3D shapes and everyday objects.</li> </ul>	<ul style="list-style-type: none"> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> </ul> <p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs.</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>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> <li>Multiply and divide by 2/5/10</li> </ul>	<p><b>Measurement: Mass, Capacity &amp; Temperature</b></p> <ul style="list-style-type: none"> <li>Choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using thermometers and measuring vessels.</li> <li>Choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using scales.</li> <li>Compare and order mass and volume/capacity using &gt;, &lt; and =</li> </ul>	<p>recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</p> <ul style="list-style-type: none"> <li>Count in fractions.</li> </ul> <p><b>Measurement: Time</b></p> <ul style="list-style-type: none"> <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 &amp; the number of hours in a day.</li> <li>Compare and sequence intervals of time.</li> </ul>	<p>category and sorting the categories by quantity.</p> <ul style="list-style-type: none"> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul> <p><b>Geometry: Position &amp; Direction</b></p> <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>
<b>Year 3</b>	<p><b>Number: Number &amp; Place Value</b></p> <ul style="list-style-type: none"> <li>Count from 0 in multiples of 4, 8, 50 and 100.</li> <li>Find 10 or 100 more or less than a given number.</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>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1000 in numerals and in words.</li> <li>Solve number problems and practical problems involving these ideas.</li> </ul> <p><b>Number: Addition &amp; Subtraction</b></p>	<p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Calculate mathematical statements for multiplication and division using the multiplication tables that they know including for two-digit numbers times one-digit numbers using the multiplication (x), division (÷) 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 context.</li> <li>Show that multiplication of two numbers can be done in any order (commutative) and</li> </ul>	<p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>Solve problems including missing number problems involving multiplication and division, positive integer scaling problems.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods.</li> <li>Divide 2 digits by 1 digit</li> </ul> <p><b>Measurement: Lengths &amp; Perimeter</b></p>	<p><b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Recognise simple fractions (quarter, half, third)</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>Count in fractions</li> <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>Equivalent fractions</li> </ul> <p><b>Measurement: Mass &amp; Capacity</b></p>	<p><b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Add and subtract fractions with the same denominator within one whole (<math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>)</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> <p><b>Measurement: Money</b></p> <ul style="list-style-type: none"> <li>Add &amp; subtract amounts of money.</li> <li>Workout change.</li> <li>Use £ and p in practical contexts.</li> <li>Record pounds and pence separately.</li> </ul>	<p><b>Geometry: Properties of Shapes</b></p> <ul style="list-style-type: none"> <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> <li>Draw 2-D shapes and make 3D shapes using modelling materials.</li> <li>Recognise 3-D shapes in different orientations and describe them.</li> </ul>

	<ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds.</li> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>Estimate the answer to a calculation and use inverse operations to check answers.</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>	<p>division of one number by another cannot.</p>	<ul style="list-style-type: none"> <li>Measure, compare, add and subtract lengths(m/cm/mm)</li> <li>Measure the perimeter of simple 2-D shapes.</li> </ul>	<ul style="list-style-type: none"> <li>Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml).</li> <li>Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1kg and 200g) and simple equivalents of mixed units (5m = 500cm).</li> </ul>	<ul style="list-style-type: none"> <li>Continue to be fluent in recognising the value of coins.</li> <li>Convert pounds and pence.</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, 12-hour and 24-hour clocks.</li> <li>Estimate and read time with increasing accuracy to the nearest minute.</li> <li>Record and compare time in terms of seconds, minutes and hours.</li> <li>Use vocabulary such as o'clock, am/pm, 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 calculate the time taken by particular events or tasks].</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> <li>Pupils understand and use simple scales (for example, 2, 5, 10 units per cm) in pictograms and bar charts with increasing accuracy.</li> </ul>
<b>Year 4</b>	<p><b>Number: Number &amp; Place Value</b></p> <ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1000.</li> <li>Find 1000 more or less than a given number.</li> <li>Count backwards through zero to include negative numbers.</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>Identify, represent and estimate numbers using different representations.</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> <li>Read Roman numerals to 100 (I to C) and know that over time, the numeral</li> </ul>	<p><b>Measurement: Area</b></p> <ul style="list-style-type: none"> <li>Find the area of rectilinear shapes by counting squares.</li> <li>Relate area to arrays and multiplication.</li> </ul> <p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Recall and use 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 commutatively in mental calculations.</li> <li>Multiply and divide by 3, 6,9,7,</li> </ul>	<p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Multiply and divide by 10</li> <li>Multiply and divide by 100</li> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> <li>Factor pairs.</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> <li>11 and 12 times table.</li> </ul> <p><b>Measurement: Length &amp; Perimeter</b></p> <ul style="list-style-type: none"> <li>Convert between different units of measure eg kilometre to metre.</li> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m.</li> </ul>	<p><b>Number: Fractions</b></p> <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> </ul> <p><b>Number: Decimals</b></p> <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> </ul>	<p><b>Number: Decimals</b></p> <ul style="list-style-type: none"> <li>Round decimals with one decimal place to the nearest whole number.</li> <li>Order and compare numbers with the same number of decimal places up to two decimal place.</li> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul> <p><b>Money</b></p> <ul style="list-style-type: none"> <li>Add &amp; subtract amounts of money.</li> <li>Give change</li> <li>Four operations</li> <li>Estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>Convert between different units of measure, e.g. hour to minute.</li> </ul>	<p><b>Geometry: Properties of Shapes</b></p> <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> <li>Identify lines of symmetry in 2D shapes presented in different orientations.</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul> <p><b>Geometry: Position &amp; Direction</b></p> <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> </ul>

	<p>system changed to include the concept of zero and place value.</p> <p><b>Number: Addition &amp; 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>Estimate and use inverse operations to check answers to a calculation.</li> <li>Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</li> </ul>		<ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures.</li> <li>Perimeter on a grid</li> </ul>	<ul style="list-style-type: none"> <li>Recognise and write decimal equivalents to half, quarter and three quarters.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Read, write &amp; 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>	<ul style="list-style-type: none"> <li>Plot specified points and draw sides to complete a given polygon.</li> </ul> <p><b>Statistics</b></p> <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>Year 5</b>	<p><b>Number: Number &amp; Place Value</b></p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> <li>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.</li> <li>Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000</li> <li>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</li> <li>Solve number problems and practical problems that involve all of the above.</li> </ul> <p><b>Number: Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>Add and subtract numbers mentally with increasingly large numbers.</li> <li>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> </ul>	<p><b>Number: Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>Multiply and divide numbers mentally drawing upon known facts.</li> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</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>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)</li> </ul> <p><b>Number: Fractions</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.</li> </ul>	<p><b>Number: Multiplication &amp; Division</b></p> <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>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>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> <p><b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are multiples of the same number.</li> <li>Add and subtract fractions with the same denominator</li> </ul>	<p><b>Number: Decimals &amp; Percentages</b></p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</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>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 simple fractions and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> <p><b>Measurement: Perimeter &amp; Area</b></p> <ul style="list-style-type: none"> <li>Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</li> <li>Calculate and compare the area of rectangles (including</li> </ul>	<p><b>Geometry: Properties of shapes</b></p> <ul style="list-style-type: none"> <li>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</li> <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: <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total 360 °)</li> <li>angles at a point on a straight line and ½ a turn (total 180°)</li> <li>other multiples of 90°.</li> </ul> </li> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul> <p><b>Geometry: Position &amp; Direction</b></p> <ul style="list-style-type: none"> <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>	<p><b>Number: Decimals</b></p> <ul style="list-style-type: none"> <li>Adding decimals</li> <li>Subtracting decimals</li> <li>Adding and subtracting decimals with a different number of decimal places</li> <li>Decimals and wholes</li> <li>Multiplying decimals by 10,100,1000</li> <li>Solve problems involving number up to three decimal places.</li> </ul> <p><b>Measurement: Converting units</b></p> <ul style="list-style-type: none"> <li>Convert between different units of metric measure (for example, km and m; cm and m; cm and mm; g and kg; l and ml).</li> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> <li>Solve problems involving converting between units of time.</li> </ul> <p><b>Measures: Volume</b></p> <ul style="list-style-type: none"> <li>Estimate volume (for example using 1cm<sup>3</sup> blocks to build cuboids (including cubes) and capacity (for example, using water)).</li> <li>Use all four operations to solve problems involving</li> </ul>

	<ul style="list-style-type: none"> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	<b>Statistics</b> <ul style="list-style-type: none"> <li>Complete, read and interpret information in tables, including timetables.</li> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>	and denominators that are multiples of the same number. <ul style="list-style-type: none"> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> <li>Read and write decimal numbers as fractions.</li> </ul>	squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes.	<ul style="list-style-type: none"> <li>Draw on a grid</li> </ul>	measure (eg. Length, mass, volume, money, money) using decimal notation, including scaling.
<b>Year 6</b>	<b>Number: Number &amp; Place Value</b> <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>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 &amp; Subtraction, Multiplication &amp; Division</b> <ul style="list-style-type: none"> <li>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.</li> <li>Multiply multi-digit number 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> </ul>	<b>Number: Fractions</b> <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 denominations and mixed numbers, using the concept of equivalent fractions.</li> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form.</li> <li>Divide proper fractions by whole numbers</li> </ul> <b>Measurement: Using Measures</b> <ul style="list-style-type: none"> <li>Convert between miles and kilometres</li> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places 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 three decimal places.</li> </ul>	<b>Number: Fractions, Decimals &amp; Percentages</b> <ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply numbers by 10, 100 and 1000 giving answers up to 3 decimal places.</li> <li>Multiply one-digit numbers with up to two decimal place by whole numbers.</li> <li>Associate a fraction with division and calculate decimal fraction equivalents (eg. 0.375) for a simple fraction (eg. <math>\frac{3}{8}</math>).</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> <li>Use written division methods in cases where the answer has up to two decimal places.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> <li>Solve problems involving the calculation of percentages [for example, of measures such as 15% of 360] and the use of percentages for comparison</li> </ul> <b>Number: Algebra</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>Measurement: Perimeter, Area &amp; Volume</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 cm<sup>3</sup>, m<sup>3</sup> and extending to other units (mm<sup>3</sup>, km<sup>3</sup>).</li> </ul> <b>Number: Ratio and proportion</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 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> <li>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.</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> </ul>	<b>Geometry: Properties of Shapes</b> <ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> <li>Recognise, describe and build simple 3-D shapes, including making nets.</li> <li>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.</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 angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul> <b>Geometry: Position &amp; Direction</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>Post SATS consolidation</b>



	<ul style="list-style-type: none"><li>• Perform mental calculations, including with mixed operations and large numbers.</li><li>• Identify common factors, common multiples and prime numbers.</li><li>• Use their knowledge of the order of operations to carry out calculations involving the four operations.</li><li>• Solve problems involving addition, subtraction, multiplication and division.</li><li>• Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li></ul>			<ul style="list-style-type: none"><li>• Calculate and interpret the mean as an average.</li></ul>		
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