

Y2	Autumn 1 Topic: Tales With a Twist	Autumn 2 Topic: Castles and Christmas	Spring 1 Topic: Bostin' Birmingham Landmarks	Spring 2 Topic: Bostin' Birmingham Landmarks	Summer 1 Topic: Our Great World	Summer 2 Topic: Our Great World
Week 1	Counting forwards and backwards within 20	Number bonds to 20  Fact families - addition and subtraction bonds to 2	Subtract a 2-digit number from a 2-digit number - not crossing ten  Subtract a 2-digit number from a 2-digit number - crossing ten - subtract ones and subtract tens	Recognise a half  Find a half  Recognise a quarter  Find a quarter  Make equal parts	Measure mass in grams/ Measure mass in kilograms  Millilitres/ Litres  Measure length (cm)/ Measure length (m)  Temperature	Make tally charts/ Draw pictograms (1-1)/ Draw pictograms (2, 5 and 10)  Interpret pictograms/tally charts  Block diagrams
Week 2	Tens and ones within 20	Check calculations  Compare number sentences	Recognise equal groups/ Make equal groups  Add equal groups	Recognise a third  Find a third  Find three quarters	Recap	Describe position/ Describe movement/ Describing turns  Describing movement and turns  Making patterns with shapes
Week 3	Counting forwards and backwards within 50 (Numbers to 50)  Tens and ones within 50  Compare numbers within 50	Related facts  Bonds to 100 (tens)  10 more and 10 less	Multiplication sentences using the x symbol  Use arrays	Unit fractions  Non-unit fractions  Equivalence of a half and 2 quarters  Problem solving with fractions	Sats / recap	Four operations with mass  Four operations with volume

<p><b>Week 4</b></p>	<p>Count objects to 100 and read and write numbers in numerals and words</p> <p>Represent numbers to 100</p> <p>Tens and ones with a part-whole model</p>	<p>Add and subtract 1s</p> <p>Add and subtract 10s</p>	<p>Make equal groups - sharing</p>	<p>Telling time to the hour</p> <p>Telling time to the half hour</p> <p>Hours and days</p> <p>Find durations of time</p> <p>Compare durations of time</p>	<p>Sats / recap</p>	<p>Identify gaps from sats</p> <p>Problem solving</p> <p>Consolidation</p>
<p><b>Week 5</b></p>	<p>Tens and ones using addition</p> <p>Use a place value chart</p>	<p>Add a 2-digit and 1-digit number - crossing ten</p> <p>Subtract a 1-digit number from a 2-digit number - crossing ten</p>	<p>Make equal groups - grouping</p>	<p>Quarter past and quarter to</p> <p>Telling time to 5 minutes</p> <p>Hours and days</p> <p>Find durations of time</p> <p>Compare durations of time</p>	<p>Recap/mop up sats</p>	<p>Identify gaps from Sats</p> <p>Problem solving</p> <p>Consolidation</p>
<p><b>Week 6</b></p>	<p>Compare objects / Compare numbers</p> <p>Order objects and numbers</p>	<p>Add two 2-digit numbers - not crossing ten - add ones and add ten</p> <p>Add two 2-digit numbers - crossing ten - add ones and add ten</p>	<p>Count sides on 2-D shapes</p> <p>Count vertices on 2-D shapes</p> <p>Draw 2-D shapes</p> <p>Lines of symmetry</p> <p>Make patterns with 2-D shapes</p>	<p>Make the same amount</p> <p>Find the total/ Find the difference/ Find change/ Two-step problems</p>	<p style="background-color: black; color: black;">[REDACTED]</p>	<p>Identify gaps from Sats</p> <p>Problem solving</p> <p>Consolidation</p>

<b>Week 7</b>	Count in 2s, 5s and 10s	Count money - pence	Count faces on 3-D shapes		Identify gaps from Sats Problem solving Consolidation
		Count money - pounds (notes and coins)	Count edges on 3-D shapes		
		Count money - notes and coins	Count vertices on 3-D shapes		
		Select money	Sort 3-D shapes  Make patterns with 3-D shapes		

### Continuous fluency facts:

Counting forwards & backwards

Counting in 2s, 5s, 10s and 3s - 2x 5x 10x tables




Doubles/Halves to 20




Number bonds to 20/100




Addition/Subtraction facts




Multiplication/Division facts




Reading scales (temperature)

<b>Year 2</b>		
<b>Knowledge</b> 	<b>Skills</b> 	<b>Vocabulary</b> 
<p><b>Number- Number &amp; place value</b></p> <p>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</p> <p>Recognise the place value of each digit in a two-digit number (tens, ones).</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</p> <p>Read and write numbers to at least 100 in numerals and in words.</p> <p>Use place value and number facts to solve problems.</p> <p><b>Number- Addition &amp; subtraction</b></p> <p>Solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> <li>• using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>• applying their increasing knowledge of mental and written methods</li> </ul> <p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</p>	<p><b>See separate White Rose Skill Progression Sheets</b></p>	<p><b>Number</b></p> <p>Number, numeral, zero, one, two, three ... twenty, teen numbers, eleven, twelve ... twenty, twenty-one, twenty-two ... one hundred, <b>two hundred ... one thousand</b>, none, How many ...? count, count (up) to, count on (from, to), count back (from, to), forwards, backwards, count in ones, twos, fives, tens, <b>threes, fours and so on</b>, equal to, equivalent to, is the same as, more, less, most, least, <b>tally</b>, many, odd, even, multiple of, <b>sequence, continue, predict</b>, few, pattern, pair, <b>rule, &gt; greater than, &lt; less than</b></p> <p><b>Place value</b></p> <p>Ones, tens, <b>hundreds</b>, digit, <b>one-, two- or three-digit number, place, place value, stands for, represents, exchange</b>, the same number as, as many as, more,, larger, bigger, greater, fewer, smaller, less, fewest, smallest, least, most, biggest, largest, greatest, one more, ten more, one less, ten less, equal to, compare, order, size, first, second, third ... twentieth, <b>twenty-first, twenty-second ...</b>, last, last but one, before, after, next, between, halfway between, above, below</p> <p><b>Estimating</b></p> <p>Guess, how many ...? estimate, nearly, roughly, close to, about the same as, just over, just under, <b>exact, exactly</b>, too many, too few, enough, not enough</p>

<b>Year 2</b>		
<b>Knowledge</b> 	<b>Skills</b> 	<b>Vocabulary</b> 
<p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <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> <p>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p><b>Number – Multiplication &amp; division</b></p> <p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</p> <p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs.</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</p>		<p><b>Addition</b> Addition, add, plus, more, and, make, sum, total, altogether, double, near double, half, halve, one more, two more ... ten more ... one hundred more, How many more to make ...? How many more is ... than ...? How much more is ...? <b>commutative</b></p> <p><b>Subtraction</b> Subtract, minus, take away, how many are left/left over? how many have gone? one less, two less, ten less ... <b>one hundred less</b>, how many fewer is ... than ...? , how much less is ...? difference between, equals, is the same as, number bonds/ pairs/<b>facts</b></p> <p><b>Multiplication &amp; Division</b> Multiplication, multiply, multiplied by, multiple, <b>groups of, times, once, twice, three times ... ten times, repeated addition</b>, division, dividing, divide, divided by, divided into, grouping, sharing, share, share equally, left, left over, one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of, doubling, halving, array, row, column, number patterns, multiplication table, multiplication fact, division fact</p> <p><b>Fractions</b> Fraction, <b>equivalent fraction, mixed number, numerator, denominator</b>, equal part, equal grouping, equal sharing, parts of a whole, half, <b>two halves</b>, one of two equal</p>

<b>Year 2</b>		
<b>Knowledge</b> 	<b>Skills</b> 	<b>Vocabulary</b> 
<p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p><b>Number - Fractions</b></p> <p>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.</p> <p>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</p> <p><b>Measurement</b></p> <p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (<math>^{\circ}</math>C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</p> <p>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</p> <p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</p>		<p>parts, quarter, <b>two quarters</b>, <b>three quarters</b>, one of four equal parts, <b>one third</b>, <b>two thirds</b>, <b>one of three equal parts</b></p> <p><b>Measurement</b> Measure, measurement, size, compare, <b>measuring scale</b>, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as, roughly, just over, just under</p> <p><b>Length &amp; Height</b> Centimetre, metre, length, height, width, depth, long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher, longest, shortest, tallest, highest, far, <b>further</b>, <b>furthest</b>, near, close, ruler, metre stick, <b>tape measure</b></p> <p><b>Weight</b> Kilogram, half kilogram, <b>gram</b>, weigh, weighs, balances, heavy, light, heavier than, lighter than, heaviest, lightest, scales</p> <p><b>Capacity &amp; Volume</b> Litre, half litre, <b>millilitre</b>, capacity, volume, full, empty, more than, less than, half full, quarter full, holds, <b>contains</b>, container</p> <p><b>Temperature</b> <b>Temperature</b>, <b>degree</b></p> <p><b>Time</b> Time, days of the week, Monday, Tuesday ..., months of the year (January, February ...), seasons: spring,</p>

<b>Year 2</b>		
<b>Knowledge</b> 	<b>Skills</b> 	<b>Vocabulary</b> 
<p>Compare and sequence intervals of time.</p> <p>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.</p> <p>Know the number of minutes in an hour and the number of hours in a day.</p> <p><b>Geometry - Properties of shapes</b></p> <p>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.</p> <p>Identify 2-D shapes on the surface of 3-D shapes, (for example, a circle on a cylinder and a triangle on a pyramid).</p> <p>Compare and sort common 2-D and 3-D shapes and everyday objects.</p> <p><b>Geometry - Position &amp; direction</b></p> <p>Order and arrange combinations of mathematical objects in patterns and sequences</p>		<p>summer, autumn, winter, day, week, weekend,, <b>fortnight</b>, month, year, birthday, holiday, morning, afternoon, evening, night, bedtime, dinnertime, playtime, today, yesterday, tomorrow, before, after, earlier, later, next, first, last, midnight, date, now, soon, early, late, quick, quicker, quickest, quickly, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, how long ago? how long will it be to ...? how long will it take to ...? how often? always, never, often, sometimes, usually, once, twice, hour, o'clock, half past, quarter past, quarter to <b>5, 10, 15 ... minutes past</b>, clock, clock face, watch, hands, <b>digital/analogue clock/watch, timer</b>, hour hand, minute hand, hours, minutes, <b>seconds</b></p> <p><b>Money</b></p> <p>Money, coin, penny, pence, pound, price, cost, buy, <b>bought</b>, sell, <b>sold</b>, spend, spent, pay, change, dear, costs more, cheap, costs less, cheaper, costs the, same as how much ...? how many ...? Total</p> <p><b>Geometry - Properties of shapes</b></p> <p>Shape, pattern, flat, curved, straight, round, hollow, solid, sort, make, build, draw, <b>surface</b>, size, bigger, larger, smaller, symmetry, symmetrical, symmetrical pattern, <b>line symmetry</b>, pattern, repeating pattern, match</p>

<b>Year 2</b>		
<b>Knowledge</b> 	<b>Skills</b> 	<b>Vocabulary</b> 
<p>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 anticlockwise).</p> <p><b>Statistics</b></p> <p>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</p> <p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</p> <p>Ask and answer questions about totalling and comparing categorical data.</p>		<p><b>2D Shape</b>            Corner, side, point, pointed, rectangle (including square), <b>rectangular</b>, circle, <b>circular</b>, triangle, <b>triangular</b>, <b>pentagon</b>, <b>hexagon</b>, <b>octagon</b></p> <p><b>3D Shape</b>            Face, edge, vertex, vertices, cube, cuboid, pyramid, sphere, cone, cylinder</p> <p><b>Position &amp; Direction</b>            Position, over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, centre, corner, direction, journey, <b>route</b>, left, right, up, down, <b>higher</b>, <b>lower</b>, forwards, backwards, sideways, across, next to, close, near, far, along, through, to, from, towards, away from, <b>clockwise</b>, <b>anticlockwise</b>, movement, slide, roll, turn, stretch, bend, whole turn, half turn, quarter turn, three-quarter turn, <b>right angle</b>, <b>straight line</b></p> <p><b>Statistics</b>            Count, <b>tally</b>, sort, vote, <b>graph</b>, <b>block graph</b>, <b>pictogram</b>, <b>represent</b>, group, set, list, table, <b>label</b>, <b>title</b>, <b>most popular</b>, <b>most common</b>, <b>least popular</b>, <b>least common</b></p>