



**Maths Progression of  
Skills and Knowledge**

**LONG TERM PLAN CORE Curriculum → Maths**

	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Reception</b>	Place Value – Numbers to 5 Addition and subtraction – Sorting Place Value – Comparing groups Addition and subtraction – Change within 5 Measurement - Time		Addition and subtraction – Numbers to 5 Place Value – Numbers to 10 Addition and Subtraction – Addition to 10 Geometry – Shape and Space		Geometry – Exploring Patterns Addition and Subtraction – Count on and back Place value – Numbers to 20 Multiplication and Division – Numerical patterns Measurement - Measure	
<b>Year 1</b>	<p>Number: Place Value (within 20) <i>Sorting, counting forwards/backwards, one more/less, representations, comparing and ordering.</i> <b>WR Y1/2, Block 1</b> NCETM: Number, addition and subtraction: 1.1-1.4, 1.10</p> <p>Number: Addition and Subtraction, inc money (within 20) <i>Money, part whole models, fact families, number bonds, adding on. Counting back, subtraction, finding the difference, comparing.</i> <b>WR Y1/2, Block 2</b> NCETM: Number, addition and subtraction: 1.5-1.7.</p>	<p>Continuation of Number: Addition and Subtraction (within 20)</p> <p>Number: Place value to 50 and multiplication <i>Numbers to 50, Counting in 2, 5, 10s, equal grouping, arrays, doubles.</i> <b>WR, Y1/2, Block 3</b> NCETM: Multiplication and division: 2.1</p> <p>Assessment</p>	<p>Number: Division <i>Sharing, grouping.</i> <b>WR, Y1/2, Block 4</b></p> <p>Number: Place Value to 100. <i>Counting, partitioning, comparing, ordering, one more/less</i> <b>WR, Y1/2, Block 5</b> NCETM: Number, addition and subtraction: 1.8-1.9</p> <p>Measurement: Length and Height <i>Measure length, compare length and height.</i> <b>WR, Y1/2, Block 6</b></p>	<p>Geometry: Shape <i>Recognising/naming 2D/3D shapes, sorting, patterns.</i> <b>WR, Y1/2, Block 7</b></p> <p>Number: Fractions <i>Halves, quarters.</i> <b>WR, Y1/2, Block 8</b></p> <p>Assessment</p>	<p>Geometry: Position and Direction <i>Describing turns, movement and position.</i> <b>WR, Y1/2, Block 9</b></p> <p>Measurement: Time <i>Ordering events, telling the time to an hour/half an hour, writing and comparing time.</i> <b>WR, Y1/2, Block 10</b></p> <p>Number: Place value recap <i>Consolidation based on gaps/assessment</i></p>	<p>Measurement: weight and volume <i>Measuring/comparing weight and mass, capacity and volume</i> <b>WR, Y1/2, Block 12</b></p> <p>Number: Four operations recap <i>Consolidation based on gaps/assessment</i></p> <p>Assessment</p>

## Year 1 Fluency

<p>Say one more/ one less to 100.</p> <p>Use <math>&lt;</math>, <math>&gt;</math> and <math>=</math></p> <p>Read and write numbers from 1 to 20 (numerals and words).</p> <p>Ordinal numbers.</p> <p>Use the language of: equal to, more than, less than (fewer), most, least.</p> <p>Use number bonds and subtraction facts to 20.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Reading and writing numbers to 50.</p> <p>Counting in 2s</p> <p>Counting in 5s</p> <p>Say one more/one less to 100.</p> <p>Comparing numbers.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Counting in 10s</p> <p>Counting in 2s</p> <p>Doubling – understanding the basic concept.</p> <p>Reading and writing numbers to 100.</p> <p>Count to and across 100, forwards and backwards from any number.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Patterns – creating and completing given patterns.</p> <p>Halving – to understand the basic concept</p> <p>Recognise half and quarter of an object, shape or quantity.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Use the number bonds and subtraction facts to 20.</p> <p>Using the language: before and after, day, week, month and year.</p> <p>Sequence events in chronological order.</p> <p>Read time to hour &amp; half past.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Count in different multiples including ones, twos, fives and tens.</p> <p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</p> <p>Use the number bonds and associated subtraction facts to 20.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>
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## Year 1 KIRF

<ul style="list-style-type: none"> <li>• Count up to 20 Count on and back to 20</li> <li>• One more than and one less than numbers up to 10</li> <li>• Add and subtract one digit numbers to 10, including zero</li> </ul>	<p>I know number bonds for each number to 6</p>	<p>I know doubles and halves of numbers to 10.</p>	<p>I know number bonds to 10.</p>	<p>I can tell the time – to the nearest hour/half hour</p>	<p>I know my number bonds for each number to 10</p>
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# Year 2

<p>Number: Place Value to 100 <i>Counting forwards/backwards, representations, comparing and ordering.</i> <b>WR, Y1/2, Block 1</b></p> <p>Number: Addition and Subtraction, inc money (within 100) <i>Money, 10 more/less, fact families, bonds to 100, adding on. Subtracting with 2 digits, finding change, finding the difference, comparing, problems solving.</i> <b>WR, Y1/2, Block 2</b> <b>NCETM: Number, addition and subtraction: 1.11-1.16</b></p>	<p>Continuation of Number: Addition and subtraction (within 100)</p> <p>Number: Place value and multiplication <i>Counting in multiples, equal grouping, multiplication from pictures, arrays, 2, 5, 10 times tables.</i> <b>WR, Y1/2, Block 3</b> <b>NCETM: Multiplication and division: 2.2-2.6.</b></p> <p>Assessment</p>	<p>Number: Division <i>Sharing, grouping, divide by 2,5 and 10.</i> <b>WR, Y1/2, Block 4</b></p> <p>Statistics <i>Tally charts, pictograms, block diagrams.</i> <b>WR, Y1/2, Block 5</b></p> <p>Measurement: Length and Height <i>Measure length involving units, comparing and ordering, the four operations involving length.</i> <b>WR, Y1/2, Block 6</b></p>	<p>Geometry: Properties of a shape <i>Recognising 2D/3D shapes, shape properties, sorting, patterns.</i> <b>WR, Y1/2, Block 7</b></p> <p>Number: Fractions <i>Equal parts, halves, quarters, thirds, unit&amp; non-fractions, counting in fractions.</i> <b>WR, Y1/2, Block 8</b> <b>NCETM: Fractions 3.0</b></p> <p>Assessment</p>	<p>Geometry: Position and Direction <i>Describing turns and movement, making patterns with shape.</i> <b>WR, Y1/2, Block 9</b></p> <p>Measurement: Time <i>Telling the time to 5m, hours and days, finding and comparing durations of time.</i> <b>WR, Y1/2, Block 10</b></p> <p>Number: Problem solving <i>Consolidation based on gaps/assessment</i></p>	<p>Measurement: Mass, Capacity and Temperature <i>Measuring/comparing mass in g/kg, comparing capacity, millilitres and litres, temperature.</i> <b>WR, Y1/2, Block 12</b></p> <p>Number: Investigations <i>Consolidation based on gaps/assessment</i></p> <p>Assessment</p>
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## Year 2 Fluency

<p>Reading and interpreting part whole model.</p> <p>Reading and writing numbers to 100 in numerals and words.</p> <p>Use &lt;, &gt; and = to compare and order numbers to 100.</p> <p>Partitioning – recognise place value of any 2 digit number.</p>	<p>Derive and use related facts to 100.</p> <p>Reading and interpreting bar models</p> <p>Counting in 2s, 5s and 10s from any given numbers (forwards and backwards)</p> <p>Recall and use multiplication and division facts for 2, 5 and 10 tables.</p>	<p>Classifying/sorting odd and even numbers</p> <p>Counting in 2s, 5s and 10s</p> <p>Using &lt;, &gt; and = to compare numbers to 100.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Naming 2D shapes</p> <p>Sorting</p> <p>Read and interpret bar models</p> <p>Halve simple numbers via partitioning</p> <p>Recognise, find, name and write 1/3; 1/4; 2/4; 3/4</p> <p>Write and recognise equivalence of simple fractions.</p>	<p>Tell time to five minutes, including quarter past/to</p> <p>Fluency based on the children's needs with the SATS in mind.</p>	<p>Reading and writing numbers to a thousand (numerals and words).</p> <p>Comparing numbers to 1000</p> <p>Doubling simple numbers via partitioning.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>
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	<p>Recall and use +/- facts to 20.</p> <p>10 more/less than any given number.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	<p>Recall and use +/- facts to 20</p> <p>Recall and use inverse (+/-)</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>		<p>Consolidation of fluency related to current topic and the children's needs.</p>		
	<b>Year 2 KIRFs</b>					
	<p>I can count on and back in 10s and 1s from any given number (below 3 digits).</p>	<p>I know doubles and halves of numbers to 20</p>	<p>I know the multiplication and division facts for the 2 times table</p>	<p>I know the multiplication and division facts for the 10 times table.</p>	<p>I can tell the time - To the nearest 5minutes.</p>	<p>I know the multiplication and division facts for the 5 times table</p>

<b>Year 3</b>	<p>Number: Place Value (Numbers to 1,000) <i>Counting, representation, finding 1, 10, 100 more/less, comparing and ordering</i> <b>WR, Y3/4, Block 1</b></p> <p>Number: Addition and Subtraction, inc money (within 1,000) <i>Adding/subtracting multiples, adding/subtracting up to two 3 digit numbers, estimating and checking.</i> <b>WR, Y3/4, Block 2</b> NCETM: Number, addition and subtraction: 1.17-1.21</p>	<p>Continuation of Number: Addition and Subtraction, inc money (within 1,000)</p> <p>Number: Multiplication and division <i>Equal groups, multiply/divide by 3, 4, and 8, comparing number statements and related calc. Factor pairs</i> <b>WR, Y3/4, Block 3</b> NCETM: Multiplication and division: 2.7-2.9</p> <p>Assessment</p>	<p>Number: Multiplication and Division <i>Multiply 2 d by 1d, divide 2d by 1 d. Scaling, Correspondence</i> <b>WR, Y3/4, Block 4</b></p> <p>Measurement: Length, Perimeter and Area <i>Measure/compare length, converting between mm, cm and m, add/subtract length, perimeter.</i> <b>WR, Y3/4, Block 5</b></p> <p>Number: Fractions <i>Recognising unit/non unit fractions, equivalent fractions, compare and order, fractions of an amount, add/subtract fractions.</i> <b>WR, Y3/4, Block 6</b> NCETM: Fractions: 3.1-3.4</p>	<p>Continuation of Number: Fractions</p> <p>Measurement: Mass and Capacity <i>Tenths as decimals, measuring/comparing mass and capacity, add/subtract mass and capacity.</i> <b>WR, Y3/4, Block 7</b></p> <p>Assessment</p>	<p>Number: Decimals, inc Money. <i>Writing and comparing money, converting between £ and p, adding/subtracting and giving change</i> <b>WR, Y3/4, Block 8</b></p> <p>Measurement: Time <i>Converting time (months, years, day), analogue/digital, finding and comparing durations.</i> <b>WR, Y3/4, Block 9</b></p> <p>Statistics <i>Pictograms, bar charts, tables</i> <b>WR, Y3/4, Block 10</b></p>	<p>Continuation of Statistics</p> <p>Geometry: Properties of Shape <i>Turns and angles, right angles in shapes, comparing angles, drawing and classifying lines, recognising and describing 2D/3D shape.</i> <b>WR, Y3/4, Block 11</b></p> <p>Assessment</p>
	<b>Year 3 Fluency</b>					
<p>10 or 100 more/less than a given number.</p> <p>Read and write numbers to 1000 in digits and words.</p> <p>Compare and order numbers to 1000 using &lt;, &gt; and =</p> <p>Recognise place value of any 3-digit number.</p>	<p>Count from 0 in multiples of 4, 8, 50 and 100.</p> <p>Recall and use multiplication and division facts for 3, 4 and 8 tables.</p> <p>Estimate and use inverses to check.</p> <p>Read and interpret bar models.</p>	<p>Multiplying and dividing by 10.</p> <p>Comparing using &lt;, &gt; and =.</p> <p>Counting in tenths.</p> <p>Fractions on a number line.</p> <p>Fractions of a set of objects.</p>	<p>Count up/down in tenths.</p> <p>Compare and order fractions with the same denominator.</p> <p>Add and subtract fractions with the same denominator within one whole.</p> <p>Multiply and divide by 1000.</p>	<p>To multiply and divide by 100.</p> <p>Convert between £ and p</p> <p>Know days in each month and the number of seconds in a minute.</p> <p>To tell the time using 12/24 hour clocks; using roman numerals.</p> <p>Telling the time to the nearest minute.</p>	<p>Recall and use multiplication and division facts for 3, 4 and 8 tables.</p> <p>Number of degrees in a right angle.</p> <p>Naming 2D and 3D shapes.</p> <p>Consolidation of fluency related to current topic and the children's needs.</p>	

	Consolidation of fluency related to current topic and the children's needs.	Consolidation of fluency related to current topic and the children's needs.	Consolidation of fluency related to current topic and the children's needs.	Convert between g and kg.  Consolidation of fluency related to current topic and the children's needs.	Consolidation of fluency related to current topic and the children's needs.	
	<b>Year 3 KIRFs</b>					
	I can count on and back in 10s and 1s from any given number (below 3 digits)	I can double and halve even numbers up to and including 100	I can recall facts about durations of time.	I can tell the time – to the nearest 5 minutes	I can count in steps of 50 and 100 from any number	I know the multiplication and division facts for the 3, 4 and 8 times table

# Year 4

<p>Number: Place Value (Numbers to 10,000) <i>Roman numerals, Counting, partitioning, 1,000 more/less, rounding, comparing and ordering, negative numbers.</i> <b>WR, Y3/4, Block 1</b></p> <p>Number: Addition and Subtraction (Numbers within 10,000) <i>Adding/subtracting 1s, 10s, 100s and 1000s, adding/subtracting up to two 4 digit numbers, estimating and checking.</i> <b>WR, Y3/4, Block 2</b> <b>NCETM: Number, addition and subtraction: 1.22</b></p>	<p>Continuation of Number: Addition and Subtraction (Numbers within 10,000)</p> <p>Number: Multiplication and division <i>Multiply/divide by 6, 7, and 9, know the 11/12 times tables, multiply/divide by 10, 100 1 and 0, Multiply 3 numbers, efficient multiplication.</i> <b>WR, Y3/4, Block 3</b> <b>NCETM: Multiplication and division: 2.10-2.15</b></p> <p>Assessment</p>	<p>Number: Multiplication and Division <i>Written methods, multiply up to 3d by 1d, divide up to 3d by 1 d, correspondence problems</i> <b>WR, Y3/4, Block 4</b></p> <p>Measurement: Length, Perimeter and Area <i>Kilometres, perimeter, area.</i> <b>WR, Y3/4, Block 5</b> <b>NCETM: Multiplication and division: 2.16-2.17</b></p> <p>Number: Fractions, inc Money. <i>Counting in fractions, equivalent fractions, fractions of a quantity, problem solving, add/subtract fractions.</i> <b>WR, Y3/4, Block 6</b> <b>NCETM: Number, addition and subtraction: 1.25</b> <b>NCETM: Fractions: 3.5-3.6</b></p>	<p>Continuation of Number: Fractions, inc. Money</p> <p>Number: Decimals <i>Recognise tenths/hundredths, Place value, dividing by 10 and 100.</i> <b>WR, Y3/4, Block 7</b> <b>NCETM: Number, addition and subtraction: 1.23-1.24</b></p> <p>Assessment</p>	<p>Number: Decimals, inc. Money. <i>Decimals, ordering/estimating money, four operations</i> <b>WR, Y3/4, Block 8</b></p> <p>Measurement: Time <i>Converting time, converting analogue to digital – 12/24hr</i> <b>WR, Y3/4, Block 9</b></p> <p>Statistics <i>Bar charts, line graphs</i> <b>WR, Y3/4, Block 10</b></p>	<p>Continuation of Statistics</p> <p>Geometry: Properties of Shape, Position and Direction. <i>Identifying, comparing and ordering angles, 2D shape – triangles, quadrilaterals, symmetry, co-ordinates.</i> <b>WR, Y3/4, Block 11</b></p> <p>Assessment</p>
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## Year 4 Fluency

<p>1000 more/less</p> <p>Read and write numbers to 1000/10,000</p> <p>Compare and order numbers beyond 1,000.</p>	<p>Develop knowledge of multiplication to 12x12</p> <p>Count on in 10s from any given number</p> <p>Multiply and divide by 10,100 and 1000</p> <p>Count in multiples of 6, 7, 9, 25 and 1000.</p>	<p>Use the inverse operations to check answers to a calculation – number fact families.</p> <p>Count up/down in hundredths</p> <p>Read and draw given fractions</p>	<p>Convert between decimals and fractions for hundredths and tenths – <math>0.1=1/10</math></p> <p>Value of each digit in a number with up to 2dp</p> <p>Compare and order numbers with up to 2dp</p>	<p>Convert between £ and p</p> <p>Convert between measures of time</p> <p>Read, write and convert time between analogue and digital 12 and 24 hour clocks.</p>	<p>To classify angles: acute, reflex, equilateral, obtuse</p> <p>Order angles according to size</p> <p>Label triangles based on their properties</p>
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	Count backwards through zero to negative numbers.	Consolidation of fluency related to current topic.	Recognise and write equivalent fractions.	Rounding decimals to 2dp	Draw the time accurately to the nearest minute using an analogue clock	Convert between units of measurement
	Rounding to nearest 10, 100, 1000.		Add/subtract fractions with the same denominator.	Complete part-whole models with decimals to 1 whole	Calculate durations of time using a numberline	Consolidation of fluency related to current topic.
	Identify place value of each digit in a 4 digit number		Finding fractions of an amount	Consolidation of fluency related to current topic.	Consolidation of fluency related to current topic.	
Partitioning numbers in different ways		Fractions which make 1 whole				
Read roman numerals to 100.		Consolidation of fluency related to current topic.				
Consolidation of fluency related to current topic.						
<b>Year 4 KIRFs</b>						
I know number bonds to 100	I know the multiplication and division facts for the 6 times table	I can recognise decimal equivalents of fractions.	I know the multiplication and division facts for the 9x and 11x tables.	I know the multiplication and division facts for the 7x and 12x tables.	I can multiply and divide single-digit numbers by 10 and 100.	

# Year 5

<p>Number: Place Value <i>Roman numerals, representing comparing, ordering and rounding numbers to 1,000,000, counting, negative numbers.</i> <b>WR, Y5/6, Block 1</b> NCETM: Numbers, addition and subtraction: 1.27</p> <p>Number: Four Operations <i>Addition and subtraction (4digits), multiples, multiply/divide by multiples of 10, multiplication up to 4d x 2d, factors, division (4d by 1d), prime/square/cubes, estimating</i> NCETM: Numbers, addition and subtraction: 1.26, 1.28-1.29 NCETM: Multiplication and division: 2.18, 2.20-2.22</p> <p><b>WR, Y5/6, Block 2</b></p>	<p>Continuation of Number: Four Operations</p> <p>Number: Fractions <i>Equivalent fractions, improper/mixed fractions, counting, comparing and ordering fractions, adding/subtract/multiply fractions, fractions of an amount.</i> <b>WR, Y5/6, Block 3</b> NCETM: Multiplication and division: 2.19 NCETM: Fractions: 3.7-3.8</p> <p>Assessment</p>	<p>Number: Fractions</p> <p>Number: Decimals and Percentages <i>Decimals to 3dp, round, order and compare, multiply/divide by powers of 10, percentages.</i> <b>WR, Y5/6, Block 5</b></p> <p>Number: Decimals <i>Adding, subtracting, decimals within 1, adding/subtracting decimals (same d.p), decimal sequences</i> <b>WR, Y5/6, Block 6</b></p> <p>Measurement: Converting Units <i>Metric measures, kg/km, mg/ml, imperial measures, converting units of time.</i> <b>WR, Y5/6, Block 7</b></p>	<p>Measurement: Perimeter, Area and Volume <i>Measure/calculate perimeter and area, Volume, capacity.</i> <b>WR, Y5/6, Block 8</b></p> <p>Statistics <i>Read/interpret/draw/use line graphs, tables.</i> <b>WR, Y5/6, Block 9</b></p> <p>Assessment</p>	<p>Geometry: Properties of Shape <i>Measuring angles, angles on a straight line/in shapes, regular/irregular polygons, drawing shapes, reasoning 3D shapes</i> <b>WR, Y5/6, Block 10</b></p> <p>Geometry: Position and Direction <i>Position in the first quadrant, reflection/translation with co-ordinates</i> <b>WR, Y5/6, Block 11</b></p> <p>Problem Solving and Reasoning: steps to follow and efficient methods.</p> <p>Consolidation: Fractions, Percentages, Decimals</p>	<p>Consolidation: Ratio</p> <p>Consolidation: Place Value</p> <p>Consolidation: Converting Units</p>
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## Year 5 Fluency

<p>Compare and order numbers up to 1, 000,000</p> <p>Count forwards/backwards in steps of powers of 10 for any given number to 1,000,000.</p>	<p>Develop knowledge to 12x12</p> <p>Multiply and divide by 10,100 and 1000</p> <p>Use rounding to check answers.</p>	<p>Compare and order numbers with up to 3 decimal places.</p> <p>Count in hundredths and thousandths</p> <p>Recognise and use thousandths.</p>	<p>Value of each digit in a number with up to 3dp. Compare and order numbers with 3 decimal places.</p> <p>Complete part-whole models with decimals to 1 whole</p>	<p>Convert between £ and p</p> <p>Convert between measures of time</p> <p>Tell the time accurately to the nearest minute using an analogue clock</p>	<p>Identify and order angles according to size</p> <p>Identify triangles and quadrilaterals according to properties</p> <p>Measuring and drawing angles accurately</p>
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	<p>Read and write numbers to 1000/10,000</p> <p>Rounding to nearest 10, 100, 1000</p> <p>Identify place value of each digit of any number to 1,000,000.</p> <p>Recall prime numbers to 19.</p> <p>Read roman numerals up to 1000.</p> <p>Count forwards and backwards including negative numbers through zero.</p> <p>Consolidation of fluency related to current topic.</p>	<p>Recognise mixed numbers and improper fractions and convert from one to another.</p> <p>Multiply proper fractions and mixed number by whole numbers.</p> <p>Identify and write equivalent fractions.</p> <p>Consolidation of fluency related to current topic.</p>	<p>Round decimals with 2dp to the nearest whole number and 1 dp.</p> <p>List equivalent fractions</p> <p>Find non-unit fractions of an amount</p> <p>Consolidation of fluency related to current topic.</p>	<p>Equivalence between fractions, decimals and percentages</p> <p>Consolidation of fluency related to current topic.</p>	<p>Draw the time accurately to the nearest minute using an analogue clock</p> <p>Calculate durations of time using a number line</p> <p>Conversion of 12 hour to 24hr clock</p> <p>Consolidation of fluency related to current topic.</p>	<p>Convert between units of measurement</p> <p>Consolidation of fluency related to current topic.</p>
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**Year 5 KIRFs**

I know decimal number bonds to 1 and 10	I know the multiplication and division facts for all times tables up to 12 × 12	I can identify prime numbers up to 20	I can recall metric conversions	I can recall square numbers up to 12 <sup>2</sup> and their square roots.	I can find factor pairs of a number
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# Year 6

<p>Number: Place Value <i>Representing comparing, ordering and rounding numbers to 10,000,000, negative numbers</i> <b>WR, Y5/6, Block 1</b></p> <p>Number: Four Operations <i>Addition and subtraction, common multiples, multiplication up to 4d x 2d, common factors, division, prime/squares/cubes, estimating.</i> <b>WR, Y5/6, Block 2</b> NCETM: Numbers, addition and subtraction: 1.30-1.31 NCETM: Multiplication and division: 2.23-2.25, 2.28</p>	<p>Continuation of Number: Four Operations</p> <p>Number: Fractions <i>Equivalent/simplifying fractions, comparing and ordering fractions, adding/subtract/multiply/divide fractions, four rules with fractions, fractions of an amount.</i> <b>WR, Y5/6, Block 3</b> NCETM: Fractions: 3.9</p> <p>Assessment</p>	<p>Number: Ratio <i>Ratio language, calculating ratio/scale factors, problem solving</i> <b>WR, Y5/6, Block 4</b> NCETM: Multiplication and division: 2.27</p> <p>Number: Decimals and Percentages <i>Decimals to 3dp, multiply/divide by powers of 10, fractions to decimals, percentages, percentages of an amount.</i> <b>WR, Y5/6, Block 5</b> NCETM: Fractions: 3.10 NCETM: Multiplication and division: 2.29</p> <p>Number: Algebra <i>Finding a rule, expressions/substitution, formulae, equations</i> <b>WR, Y5/6, Block 6</b></p> <p>Measurement: Converting Units <i>Metric/imperial measures, miles and kilometres.</i> <b>WR, Y5/6, Block 7</b></p>	<p>Measurement: Perimeter, Area and Volume <i>Measure/calculate perimeter and area, area of a triangle/parallelogram, volume</i> <b>WR, Y5/6, Block 8</b> NCETM: Multiplication and division: 2.30</p> <p>Statistics <i>Read/interpret/draw/use line graphs, circles, pie charts, averages (mean).</i> <b>WR, Y5/6, Block 9</b> NCETM: Multiplication and division: 2.26</p> <p>Assessment</p>	<p>Geometry: Properties of Shape <i>Measuring with a protractor, calculating angles, angles in a triangle/quadrilateral/ polygon, drawing shapes, nets of 3D shapes</i> <b>WR, Y5/6, Block 10</b></p> <p>Geometry: Position and Direction <i>Position in the four quadrants, reflections/translations.</i> <b>WR, Y5/6, Block 11</b></p> <p>SATS</p> <p>Problem Solving and Reasoning: steps to follow and efficient methods.</p> <p>Consolidation: Fractions, Percentages, Decimals</p>	<p>Consolidation: Ratio</p> <p>Consolidation: Place Value</p> <p>Consolidation: Converting Units</p>
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## Year 6 Fluency

<p>Compare and order numbers up to 10,000,000</p> <p>Read and write numbers to 10,000,000</p> <p>Rounding any whole number to a</p>	<p>Multiply and divide by powers of 10.</p> <p>Identify common factors, common multiples, square, cubed and prime numbers.</p>	<p>Multiply and divide by 10, 100 and 1000.</p> <p>Find equivalent fractions, decimals and percentages.</p> <p>Calculate % of a whole number.</p>	<p>Multiplying 3 numbers.</p> <p>Finding the mean.</p> <p>Calculating percentages.</p> <p>Naming the parts of circles, including radius,</p>	<p>Fluency based on the children's needs with the SATS in mind.</p>	<p>Partitioning</p> <p>Reading, writing and ordering numbers.</p> <p>Rounding numbers to support estimation.</p> <p>Consolidate knowledge to 12x12</p>
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	<p>required degree of accuracy.</p> <p>Identify place value of each digit in a number to 3dp.</p> <p>Use negative numbers in context and calculate intervals across zero.</p> <p>Partitioning numbers in different ways</p> <p>Consolidation of fluency related to current topic.</p>	<p>+/- fractions with different denominators and mixed numbers.</p> <p>Multiply simple pairs of proper fractions, writing the answer in the simplest form.</p> <p>Divide proper fractions by whole numbers.</p> <p>Consolidation of fluency related to current topic.</p>	<p>Order fractions, decimals and percentages.</p> <p>Converting between units.</p> <p>Using the inverse operation to check calculations.</p> <p>Consolidation of fluency related to current topic.</p>	<p>diameter and circumference.</p> <p>Converting between units for area, perimeter and volume.</p> <p>Consolidation of fluency related to current topic.</p> <p>Develop knowledge of times table facts to 12x12.</p>	<p>Consolidation of fluency related to current topic.</p>
	<b>Year 6 KIRFs</b>				

I know the multiplication and division facts for all times tables up to 12 x 12

I can identify common factors of a pair of numbers

I can convert between decimals, fractions and percentages

I can identify prime, and composite numbers up to 50.

Summer term revision

- ✓ I know decimal number bonds to 1 and 10
- ✓ I know the multiplication and division facts for all times tables up to 12 x 12
- ✓ I can identify prime numbers up to 20.
- ✓ I can recall metric conversions
- ✓ I can recall square numbers up to 12<sup>2</sup> and their square roots.
- ✓ I can find factor pairs of a number
- ✓ I can identify common factors of a pair of numbers
- ✓ I can convert between decimals, fractions and percentages.
- ✓ I can identify prime, and composite numbers up to 50