

## Norwich Road Academy – Long Term Plan for Maths

Reception	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Number and Numerical Patterns (NCETM)</b>	<ul style="list-style-type: none"> <li>-Join in with a counting pattern</li> <li>-Develop cardinality</li> <li>-Compare sets of objects</li> <li>-Use the language of comparison</li> </ul>	<ul style="list-style-type: none"> <li>-Develop subitising and counting skills</li> <li>-Explore the composition of numbers within and beyond 5.</li> <li>-Identify when two sets are equal or unequal</li> <li>-Connect two equal groups to doubles.</li> <li>-Connect quantities to numerals.</li> <li>-Join in with verbal counts beyond 20</li> </ul>	<ul style="list-style-type: none"> <li>-Explore a range of representations</li> <li>-Compare quantities and numbers</li> <li>-Develop a sense of magnitude</li> <li>-Find one more and one less than numbers to 10</li> </ul>	<ul style="list-style-type: none"> <li>-Identify when sets can be subitised or counting is needed</li> <li>-Find 9 and 10</li> <li>-Compare numbers to 10</li> <li>-Represent 9 and 10</li> <li>-Conceptual subitising to 10</li> <li>-Composition to 10</li> <li>- Bonds to 10</li> <li>- Make arrangements of 10</li> <li>-Doubles to 10</li> </ul>	<ul style="list-style-type: none"> <li>-Build numbers beyond 10</li> <li>-Continue patterns beyond 10</li> <li>-Build numbers beyond 10</li> <li>-Continue patterns beyond 10</li> <li>-Verbal counting beyond 20</li> <li>-Verbal counting patterns</li> </ul>	<ul style="list-style-type: none"> <li>-Add more</li> <li>-How many more</li> <li>-Take away</li> <li>-How many left</li> <li>-Consolidation of numbers to 20</li> <li>-Composition of numbers to 20</li> <li>-Representing numbers in different ways</li> <li>-Review counting beyond 20</li> </ul>
<b>Shape, Space and Measure (WRM)</b>	<ul style="list-style-type: none"> <li>-Match objects</li> <li>-Match pictures and objects</li> <li>-Identify a set</li> <li>-Sort objects to a type</li> <li>Explore sorting techniques</li> <li>-Create sorting rules</li> <li>-Compare amounts</li> <li>-Compare size</li> <li>-Compare mass</li> <li>-Compare capacity</li> <li>- Explore simple patterns</li> <li>-Copy and continue simple patterns</li> <li>Create simple patterns</li> </ul>	<ul style="list-style-type: none"> <li>-Explore length</li> <li>-Compare length</li> <li>-Explore height</li> <li>-Compare height</li> <li>-Talk about time</li> <li>-Order and sequence time</li> <li>-Identify and name circles and triangles</li> <li>-Compare circles and triangles</li> <li>-Shapes in the environment</li> <li>-Describe position</li> <li>-Identify and name shapes with 4 sides</li> <li>-Combine shapes with 4 sides</li> <li>Shapes in the environment</li> <li>-My day and night</li> </ul>	<ul style="list-style-type: none"> <li>-Recognise and name 3-D shapes</li> <li>-Find 2-D shapes within 3-D shapes</li> <li>-Use 3-D shapes for tasks</li> </ul>	<ul style="list-style-type: none"> <li>-3-D shapes in the environment</li> <li>-Identify more complex patterns</li> <li>-Copy and continue patterns</li> <li>-Patterns in the environment</li> </ul>	<ul style="list-style-type: none"> <li>-Continue patterns beyond 10</li> <li>-Select shapes for a purpose</li> <li>-Rotate shapes</li> <li>-Manipulate shapes</li> <li>-Explain shape arrangements</li> <li>-Compose shapes</li> <li>-Decompose shapes</li> <li>-Copy 2-D shape pictures</li> <li>-Find 2-D shapes within 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>-Explore sharing</li> <li>-Explore grouping</li> <li>-Even and odd sharing</li> <li>-Play with and build doubles</li> <li>-Identify units of repeating patterns</li> <li>-Create own pattern rules</li> <li>-Explore own pattern rules</li> <li>-Replicate and build scenes and constructions</li> <li>-Visualise from different positions</li> <li>-Describe positions</li> <li>-Give instructions to build</li> <li>-Explore mapping</li> <li>-Represent maps with models</li> <li>-Create own maps from familiar places</li> <li>-Create own maps and plans from stories</li> <li>-Deepen understanding</li> <li>-Patterns and relationships</li> </ul>

# Year 1/2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number: Addition and Subtraction inc money					Place value and multiplication		
	<p>Year 1</p> <ul style="list-style-type: none"><li>• Sort, count and represent objects</li><li>• Count, read and write forwards from any number 0 to 10</li><li>• Count, read and write backwards from any number 0 to 10</li><li>• Count one more</li><li>• Count one less</li><li>• Use one-to-one correspondence to compare groups</li><li>• Compare groups using language – equal, more/greater, less/ fewer</li><li>• Use &lt; &gt; and = symbols</li><li>• Compare numbers</li><li>• Order numbers</li><li>• Use ordinal numbers (1st, 2nd, 3rd )</li><li>• Use a number line</li></ul>	<p>Year 2</p> <ul style="list-style-type: none"><li>• Counting forward and backwards within 20, then 50.</li><li>• Understanding tens and ones within 20, then 50.</li><li>• Compare numbers within 50.</li><li>• Count objects to 100 and read / write numerals and words.</li><li>• Represent numbers to 100 using a part-part-whole model and place value chart.</li><li>• Compare number and objects.</li><li>• Order objects and numbers</li></ul>			<p>Year 1</p> <ul style="list-style-type: none"><li>• Part whole model</li><li>• Addition symbol</li><li>• Fact families- addition facts</li><li>• Number bonds for numbers up to 10, including systematic methods</li><li>• Compare Number bonds</li><li>• Addition- adding together, adding more</li><li>• Finding a part</li><li>• Subtraction, taking away, how many left? Crossing out, Introducing the subtraction symbol</li><li>• Fact families- 8 facts</li><li>• Subtraction- counting back</li><li>• Subtraction- Finding the difference</li><li>• Comparing addition and subtraction statements</li></ul>		<p>Year 2</p> <ul style="list-style-type: none"><li>• Fact families – addition and subtraction bonds to 20</li><li>• Check calculations</li><li>• Compare number sentences</li><li>• Related facts</li><li>• Bonds to 100 (tens)</li><li>• Add and subtract 1s</li><li>• 10 more and 10 less</li><li>• Add and subtract 10s</li><li>• Add by making 10</li><li>• Add a 2-digit and 1-digit number – crossing ten</li><li>• Subtraction - crossing 10</li><li>• Subtract a 1-digit number from a 2-digit number – crossing ten</li><li>• Add two 2-digit numbers – not crossing ten – add ones and add tens</li><li>• Add two 2-digit numbers – crossing ten – add ones and add tens</li><li>• Subtract a 2-digit number from a 2-digit number – not crossing ten</li><li>• Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens</li><li>• Find and make number bonds</li><li>• Bonds to 100 (tens and ones)</li><li>• Add three 1-digit numbers</li></ul>		<p>Year 1</p> <p>-Tens and ones</p> <p>Make equal groups</p> <ul style="list-style-type: none"><li>• Add equal groups</li><li>• Make arrays</li><li>• Make doubles</li><li>• Make equal groups- grouping and sharing</li></ul>	<p>Year 2</p> <p>Make equal groups</p> <ul style="list-style-type: none"><li>• Add equal groups</li><li>• Make arrays</li><li>• Recognise equal groups</li><li>• Make equal groups</li><li>• Add equal groups</li><li>Recognise equal groups</li><li>• Make equal groups</li><li>• Add equal groups</li><li>• Multiplication sentences using the x symbol</li><li>• Multiplication sentences from pictures</li><li>• Use arrays</li><li>• Make doubles</li><li>• 2, 5, 10 times tables</li><li>• Make equal groups – sharing</li><li>• Make equal groups – sharing</li><li>• Make equal groups – grouping</li><li>• Make equal groups – grouping</li></ul>		

Spring	Division		Statistics		Measurement:	Properties of shape	Fractions	Consolidation
	Year 1 Make equal groups-grouping and sharing	Year 2 Make equal groups – sharing • Make equal groups – sharing • Make equal groups – grouping • Make equal groups – grouping • Divide by 2 • Odd and even numbers • Divide by 5 and 10	Year 1 Count and graph	Year 2 Make tally charts • Draw pictograms (1-1) • Interpret pictograms (1-1) • Draw pictograms (2,5,10) • Interpret pictograms (2,5,10) • Block diagrams	Year 1 *Compare lengths and heights • Measure lengths, including non-standard and standard measure Year 2 • Compare length and heights • Measure length (cm and m) • Compare lengths • Order lengths • Four operations with lengths • Problems solving with lengths	Year 1 • Recognise, name and sort 3D shapes • Recognise, name and sort 2D shapes • Patterns with 2D and 3D shapes Year 2 Recognise 2D and 3D shapes • Count sides on 2D shapes • Count vertices on 2D shapes • Draw 2D shapes • Lines of symmetry • Lines of symmetry – draw the whole • Sort 2D shapes • Make patterns with 2D shapes • Count face, edges and vertices on 3D shapes • Sort 3D shapes • Make patterns with 3D shapes	Year 1 • Find a half • Find a quarter Year 2 • Make equal parts • Recognise a half • Find a half • Recognise a half • Find a half • Recognise a quarter • Find a quarter • Recognise a third • Find a third •	

Norwich Road  
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Summer	<u>Position and direction</u>	<u>Time</u>		<u>Problem solving and efficient methods</u>	<u>Mass and capacity</u>	<u>Consolidation</u>
	<div>Year 1</div> <div>Describe turns</div> <ul style="list-style-type: none"> <li>Describe positions</li> </ul> <div>Year 2</div> <div>Describe position</div> <ul style="list-style-type: none"> <li>Problem solving with position</li> <li>Describing movement</li> <li>Describing turns</li> <li>Describing movement and turns</li> <li>Making patterns with shapes</li> </ul>	<div>Year 1</div> <div>Before and after</div> <ul style="list-style-type: none"> <li>Dates</li> <li>Time to the hour</li> <li>Time to the half hour</li> <li>Writing time</li> <li>Comparing time</li> </ul>	<div>Year 2</div> <div>O'clock and half past</div> <ul style="list-style-type: none"> <li>Quarter past and quarter to</li> <li>Telling time to 5 minutes</li> <li>Writing time</li> <li>Hours and days</li> <li>Find durations of time</li> <li>Compare durations of time</li> </ul>		<div>Year 1</div> <ul style="list-style-type: none"> <li>Introduce weight and mass</li> <li>Measure mass</li> <li>Compare mass</li> <li>Introduce capacity and volume</li> <li>Measure capacity</li> <li>Compare capacity</li> </ul> <div>Year 2</div> <ul style="list-style-type: none"> <li>Introduce weight and mass</li> <li>Measure mass</li> <li>Compare mass</li> <li>Measure mass in grams</li> <li>Measure mass in kilograms</li> <li>Introduce capacity and volume</li> <li>Measure capacity</li> <li>Compare volume</li> <li>Millilitres and litres</li> <li>Four operations with mass</li> <li>Four operations with volume</li> <li>Temperature</li> </ul>	



### Year 3

	Week 1	Week 2	Week3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	<u>Number: Place Value</u> Represent numbers to 100. • Understand the place value of tens and ones. • Understand the place value of hundreds. • Represent numbers to 1000. • Partition numbers into hundreds, tens and ones. • Represent numbers on a number line to 1000, • Find 1, 10 and 100 more and one less than a given number. • Compare objects / numbers to 1000. • Order numbers. • Count in 50s.			<u>Number: Addition and Subtraction</u> Add and subtract multiples of 100. • Add and subtract 1s. • Add and subtract 3 digit and 1 digit numbers – not crossing 10. • Add 2 digit and 1 digit numbers – crossing 10. • Add 3 digit numbers and 1 digit numbers – crossing 10. • Subtract 1 digit number from 2 digit number – crossing 10. • Subtract 1 digit number from 3 digits – crossing 10. • Add and subtract 3 digit and 2 digit numbers – not crossing 100. • Add 3 digit and 2 digit numbers – crossing 100. • Subtract a 2 digit number from 3 digit number – crossing 100. • Add and subtract 100s. • Spot patterns. • Add ones and tens. • Subtract 2 digit numbers from 2 digit numbers – crossing 10					<u>Number: Multiplication and Division</u> • Multiplication – equal groups. • Multiplication using the symbol. • Using arrays. • 2 times table. • 5 times table. • Make equal groups – sharing. • Make equal groups – grouping. • Divide by 2. • Divide by 5. • Divide by 10. • Multiply by 3. • Divide by 3. • 3 times table. • Multiply by 4. • Divide by 4. • 4 times table. • Multiply by 8. • Divide by 8. • 8 times table.				
Spring	<u>Number: Multiplication and Division</u> Consolidate 2, 4 and 8 times tables. • Comparing statements. • Related calculations. • Multiply 2 digits by 1 digit. • Divide 2 digits by 1 digit. • Scaling. • Listing possible combinations resulting from two groups of objects.			<u>Measurement: Length and Perimeter</u> Measure length – introducing millimetres. • Measure length- metres. • Equivalent lengths – metres and centimetres. • Equivalent lengths – millimetres and centimetres. • Compare lengths. • Add lengths. • Subtract lengths. • Measure perimeter. • Calculate perimeter.			<u>Number: Fractions</u> Make equal parts. • Recognise a half. • Find a half. • Recognise a quarter. • Find a quarter. • Recognise a third. • Find a third. • Unit fractions. • Non-unit fractions. • Equivalence of one half and two quarters. • Count in fractions.				<u>Measurement:</u> <u>Mass and capacity</u> Measure mass in kilograms and grams. • Compare mass. • Add and subtract mass. • Measure capacity in litres and millilitres. • Compare capacity. • Add and subtract capacity.		

Summer	<u>Number: Fractions</u> Equivalent fractions. • Compare fractions. • Order fractions. • Add fractions. • Subtract fractions	<u>Measurement: Money</u> Count money (pence). • Count money (pounds). • Understanding pounds and pence. • Converting pounds and pence. • Add money. • Subtract money. • Working out change.	<u>Measurement: Time</u> Months and years. • Hours in a day. • Tell the time to 5 minutes. • Tell the time to the minute. • Use a.m. and p.m. • 24-hour clock. • Find durations. • Compare durations. • Find start and end times to the nearest minute. • Measure time in seconds.	<u>Geometry: Shape</u> Turns and angles. • Right angles in shapes. • Compare angles. • Draw and measure straight lines accurately. • Horizontal and vertical. • Parallel and perpendicular. • Recognise and describe 2D shapes. • Recognise and describe 3D shapes. • Make 3D shapes.	<u>Statistics</u> Make tally charts. • Draw pictograms. – 2, 5 and 10 times tables • Interpret pictograms. – 2, 5 and 10 times tables • Pictograms – including 3, 4 and 8 times tables • Bar charts. • Tables
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# Norwich Road Academy

## Year 4/5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12			
Autumn	<u>Number: Place Value</u>				<u>Number: Addition and Subtraction</u>			<u>Number: Multiplication and Division</u>			<u>Measurement: Length, Perimeter and Area</u>				
	<p>Year4</p> <ul style="list-style-type: none"><li>• Represent numbers to 1000.</li><li>• Partition hundreds, tens and ones.</li><li>• Represent numbers to 1000 on a number line.</li><li>• Round numbers to the nearest 10 and 100.</li><li>• Count in one 1000s.</li><li>• Partition numbers into thousands, hundreds, tens and ones.</li><li>• Represent numbers on a number line to 10,000.</li><li>• Find 1, 10 and 100 more or less.</li><li>• Find 1000 more or less.</li><li>• Compare and order numbers.</li><li>• Round to the nearest 1000.</li><li>• Count in 25s.</li><li>• Understand negative numbers</li></ul>				<p>Year 5</p> <ul style="list-style-type: none"><li>• Understand the place value of 1s, 10s, 100s and 1000s.</li><li>• Represent numbers to 10,000.</li><li>• Round to the nearest 10 and 100.</li><li>• Round to the nearest 1000.</li><li>• Understand the place value of numbers to 100,000</li><li>• Compare and order numbers to 100,000.</li><li>• Round numbers within 100,000.</li><li>• Understand the place value of numbers to a million.</li><li>• Count in numbers to 100,000.</li><li>• Compare and order numbers to 1 million.</li><li>• Round numbers within 1 million.</li><li>• Understand negative numbers.</li><li>• Write and read Roman numerals to 1000</li></ul>			<ul style="list-style-type: none"><li>•Y4 Add and subtract 1s, 10s, 100s and 1,000s</li><li>• Add two 3-digit numbers - not crossing 10 or 100</li><li>• Add two 4-digit numbers – no exchange</li><li>• Add two 3-digit numbers - crossing 10 or 100</li><li>• Add two 4-digit numbers – one exchange</li><li>• Add two 4-digit numbers – more than one exchange</li><li>• Subtract a 3-digit number from a 3-digit number - no exchange</li><li>• Subtract two 4-digit numbers – no exchange</li><li>• Subtract a 3-digit number from a 3-digit number - exchange</li><li>• Subtract two 4-digit numbers – one exchange</li><li>• Subtract two 4-digit numbers – more than one exchange</li><li>• Efficient subtraction</li><li>• Estimate answers</li><li>• Checking strategies negative numbers</li></ul>			<p>Year4</p> <p>Multiply by 10</p> <ul style="list-style-type: none"><li>• Multiply by 100</li><li>• Divide by 10</li><li>• Divide by 100</li><li>• Multiply by 1 and 0</li><li>• Divide by 1 and itself</li><li>• Multiply and divide by 3</li><li>• The 3 times-table</li><li>• Multiply and divide by 6</li><li>• 6 times table and division facts</li><li>• Multiply and divide by 9</li><li>• 9 times table and division facts</li><li>• Multiply and divide by 7</li><li>• 7 times table and division facts</li></ul>			<p>Year 4</p> <ul style="list-style-type: none"><li>• Equivalent lengths - m and cm</li><li>• Equivalent lengths - mm and cm</li><li>• Kilometres</li><li>• Add lengths</li><li>• Subtract lengths</li><li>• Measure perimeter</li><li>• Perimeter on a grid</li><li>• Perimeter of a rectangle</li><li>• Perimeter of rectilinear shapes</li></ul>	
					<ul style="list-style-type: none"><li>• Y5 Add two 4-digit numbers-one exchange</li><li>• Add two 4-digit numbers –more than one exchange</li><li>• Add whole numbers with more than 4 digits (column method)</li><li>• Subtract two 4-digit numbers-one exchange</li><li>• Subtract two 4-digit numbers –more than one exchange</li><li>• Subtract whole numbers with more than 4 digits (column method)</li><li>• Round to estimate and approximate</li><li>• Inverse operations (addition and subtraction)</li><li>• Multi-step addition and subtraction problems.</li></ul>			<p>Year 5</p> <ul style="list-style-type: none"><li>• Multiples</li><li>• Factors</li><li>• Common factors</li><li>• Prime numbers</li><li>• Square numbers</li><li>• Cube numbers</li><li>• Multiply by 10</li><li>• Multiply by 100</li><li>• Multiply by 10,100 and 1000</li><li>• Divide by 10</li><li>• Divide by 100</li><li>• Divide by 10, 100, 1000</li><li>• Multiples of 10, 100 and 1000</li></ul>							

Spring	Number: Multiplication and Division		Number: Fractions	Year 5	Number: Decimals (including Y5 Percentages)	
	<div>Year 4<ul style="list-style-type: none"><li>• 11 and 12 times-table</li><li>• Multiply 3 numbers</li><li>• Factor pairs</li><li>• Efficient multiplication</li><li>• Written methods</li><li>• Multiply 2-digits by 1-digit (without exchange)</li><li>• Multiply 2-digits by 1-digit (with exchange)</li><li>• Multiply 3-digits by 1-digit</li><li>• Divide 2-digits by 1-digit (with no remainders)</li><li>• Divide 2-digits by 1-digit</li><li>• Divide 3-digits by 1-digit</li><li>• Correspondence problems</li></ul></div>	<div>Year 5<ul style="list-style-type: none"><li>• Multiply 2-digits by 1-digit</li><li>• Multiply 3-digits by 1-digit</li><li>• Multiply 4-digits by 1-digit</li><li>• Multiply 2-digits (area model)</li><li>• Multiply 2-digits by 2-digits</li><li>• Multiply 3-digits by 2-digits</li><li>• Multiply 4-digits by 2-digits</li><li>• Divide 2-digits by 1-digit</li><li>• Divide 3-digits by 1-digit</li><li>• Divide 4-digits by 1-digit</li><li>• Divide with remainders</li></ul></div>	<div>Year 4<ul style="list-style-type: none"><li>• Unit and non-unit fractions</li><li>• What is a fraction?</li><li>• Tenths</li><li>• Count in tenths</li><li>• Equivalent fractions</li><li>• Fractions greater than 1</li><li>• Count in fractions</li><li>• Add fractions</li><li>• Add 2 or more fractions</li><li>• Subtract fractions</li><li>• Subtract 2 fractions</li><li>• Subtract from whole amounts</li><li>• Fractions of a set of objects</li><li>• Calculate fractions of a quantity</li></ul></div>	<div>Year 5<ul style="list-style-type: none"><li>• What is a fraction?</li><li>• Equivalent fractions</li><li>• Fractions greater than 1</li><li>• Improper fractions to mixed numbers</li><li>• Mixed numbers to improper fractions</li><li>• Number sequences</li><li>• Compare and order fractions less than 1</li><li>• Compare and order fractions greater than 1</li><li>• Add and subtract fractions</li><li>• Add fractions within 1</li><li>• Add 3 or more fractions</li><li>• Add fractions</li><li>• Add mixed numbers</li><li>• Subtract fractions</li><li>• Subtract mixed numbers</li><li>• Subtract – breaking the whole</li><li>• Subtract 2 mixed numbers</li><li>• Multiply unit fractions by an integer</li><li>• Multiply non-unit fractions by an integer</li><li>• Multiply mixed numbers by integers</li><li>• Calculate fractions of a quantity</li><li>• Fraction of an amount</li></ul></div>	<div>Year 4<ul style="list-style-type: none"><li>• Recognise tenths and hundredths</li><li>• Tenths as decimals</li><li>• Tenths on a place value grid</li><li>• Tenths on a number line</li><li>• Divide 1-digit by 10</li><li>• Divide 2-digits by 10</li><li>• Hundredths</li><li>• Hundredths as decimals</li><li>• Hundredths on a place value grid</li><li>• Divide 1 or 2-digits by 100</li></ul></div>	<div>Year 5<ul style="list-style-type: none"><li>• Decimals up to 2 d.p.</li><li>• Decimals as fractions</li><li>• Understand thousandths</li><li>• Thousandths as decimals</li><li>• Rounding decimals</li><li>• Order and compare decimals</li><li>• Understand percentages</li><li>• Percentages as fractions and decimals</li><li>• Equivalent F.D.P.</li></ul></div>



Summer	<u>Number: Decimals (including Y4 Money)</u> <div>           Year 4           <ul style="list-style-type: none"> <li>• Make a whole</li> <li>• Write decimals</li> <li>• Compare decimals</li> <li>• Order decimals</li> <li>• Round decimals</li> <li>• Halves and quarters</li> </ul> </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Adding decimals within 1</li> <li>• Subtracting decimals within 1</li> <li>• Complements to 1</li> <li>• Adding decimals – crossing the whole</li> <li>• Adding decimals with the same number of decimal places               <ul style="list-style-type: none"> <li>• Subtracting decimals with the same number of decimal places</li> </ul> </li> <li>• Adding decimals with a different number of decimal places</li> <li>• Subtracting decimals with a different number of decimal places</li> <li>• Adding and subtracting wholes and decimals</li> <li>• Decimal sequences</li> <li>• Multiplying decimals by 10, 100 and 1,000</li> <li>• Dividing decimals by 10, 100 and 1,000</li> </ul> </div>	<u>Measurement: Time</u> <div>           Year 4           <ul style="list-style-type: none"> <li>• Hours, minutes and seconds</li> <li>• Years, months, weeks and days</li> <li>• Analogue to digital – 12 hour</li> <li>• Analogue to digital – 24 hour</li> </ul> </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Converting units of time</li> <li>• Timetables</li> </ul> </div>	<u>Statistics</u> <div>           Year 4           <ul style="list-style-type: none"> <li>• Interpret charts</li> <li>• Comparison, sum &amp; difference</li> <li>• Introducing line graphs</li> <li>• Line graphs</li> </ul> </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Interpret charts</li> <li>• Comparison, sum &amp; difference</li> <li>• Review line graphs</li> <li>• Draw line graphs.</li> <li>- Use line graphs to interpret data.</li> <li>Read and interpret</li> </ul> </div>	<u>Geometry: Properties of Shape</u> <div>           Year 4           <ul style="list-style-type: none"> <li>• Identify angles</li> <li>• Compare and order angles</li> <li>• Triangles</li> <li>• Quadrilaterals</li> <li>• Lines of Symmetry</li> <li>• Complete a symmetric figure</li> </ul> </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Measuring angles in degrees</li> <li>• Measuring with a protractor</li> <li>• Drawing lines and angles accurately</li> <li>• Calculating angles on a straight line</li> <li>• Calculating angles around a point</li> <li>• Calculating lengths and angles in shapes</li> <li>• Regular and irregular polygons</li> <li>• Reasoning about 3-D shape</li> </ul> </div>	<u>Geometry: Position and Direction</u> <div>           Year 4           <ul style="list-style-type: none"> <li>• Describe position</li> <li>• Draw on grid</li> <li>• Move on a grid</li> <li>• Describe movement on a grid</li> </ul> </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Position in the first quadrant</li> <li>• Reflection</li> <li>• Reflection with coordinates</li> <li>• Translation</li> <li>• Translation with coordinates</li> </ul> </div>	<u>Y4: Consolidation</u> <div>           Year 4 Consolidation         </div> <div>           Year 5           <ul style="list-style-type: none"> <li>• Kilograms and kilometres</li> <li>• Milligrams and millilitres</li> <li>• Metric units</li> <li>• Imperial units</li> <li>• What is volume?</li> <li>• Compare volume</li> <li>• Estimate volume</li> <li>• Estimate capacity</li> </ul> </div>	<u>Consolidation</u>

## Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	<u>Number: Place Value</u> Numbers to 10,000 • Numbers to 100,000 • Numbers to 1,000,000 • Numbers to 10 million • Compare and order any number • Round numbers to 10, 100 and 1,000 • Round any number • Negative numbers		<u>Number: Four Operations</u> • Add / subtract whole numbers with more than 4 digits • Use inverse operations (addition and subtraction) • Solve multi-step addition and subtraction problems • Understand short multiplication written methods • Understand long multiplication written methods • Understand short division • Understand long division • Find factors of numbers • Find common factors and multiples • Find prime numbers to 100 • Find square and cube numbers • Use mental calculations and estimation • Reason from known facts				<u>Number: Fractions</u> • Recognise equivalent fractions • Simplify fractions • Change improper fractions to mixed numbers and vice versa • Order fractions on a number line • Compare and order fractions • Add and subtract fractions • Add and subtract mixed numbers • Multiply fractions by integers • Divide fractions by integers • Find fractions of an amount • Find the whole, given a fraction of an amount.				<u>Measurement: Converting units</u> • Understand metric units • Convert metric measures • Miles and kilometres • Use imperial measures	
Spring	<u>Number: Ratio</u> • Understanding the language of ratio • Calculating ratio • Using scale factors • Solve ratio and proportion problems		<u>Number: Algebra</u> • Find a rule (function machines) • Forming expressions • Substitutions • Formulae • Forming equations • Solving one and two-step equations • Find pairs of values • Enumerate possibilities		<u>Number: Decimals</u> Decimals to 2 decimal places • Decimals to 3 decimal places • Multiply / Divide by 10, 100 and 1000 • Multiply / divide decimals by integers • Decimals as fractions • Fractions to decimals <u>Number: Percentages</u> Understand percentages • Changing fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Find percentages of amounts			<u>Measurement: Perimeter, Area and Volume</u> • Find shapes with the same area • Area and perimeter of rectilinear shapes • Find the area of a triangle • Find the area of a parallelogram • Find volume by counting cubes • Find the volume of a cuboid			<u>Statistics</u> • Read and interpret line graphs • Draw line graphs and use to solve problems • Name the parts of a circle • Read, interpret and draw pie charts • Calculate the mean	
Summer	<u>Geometry: Properties of Shape</u> Measure angles with a protractor • Calculate missing angles • Vertically opposite angles • Angles in a triangle • Angles in quadrilateral • Angles in regular polygons • Draw shapes accurately • Draw nets of shapes			<u>Geometry: Position and Direction</u> • Identify co-ordinates in the first quadrant • Identify co-ordinates in all four quadrants • Translations • Reflections		<u>Consolidation and SATS Preparation</u>		<u>Consolidation, problems solving, investigations</u>				



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