The Maths Component Curriculum – Year 5								
What do we want our children to know and remember? (Key objectives taken from the National Curriculum)								
YEAR 5	Week 1 W	eek 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Autumn 1	Year 4 Recap  Place Figure 1  Year 4 Recap  Year 4 Recap	ber and e value Read, write, or and pare numbers Reast 0,000 and ormine the e of each	Addition and subtraction  • [KEY] Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  • [KEY] Add and subtract numbers mentally with increasingly large numbers.	<ul> <li>Multiplication and division</li> <li>[KEY] Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Multiply and divide numbers mentally, drawing upon known facts.</li> <li>Multiply numbers up to 4 digits by a one- or two-digit number using 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> </ul>		Test week	Multiplication and division  • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	
Autumn 2	Fractions  Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.  [KEY] Read, write, order and compare numbers with up to three decimal places.  [KEY] Compare and order fractions whose denominators are all multiples of the same number.		<ul> <li>[KEY] Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</li> <li>[KEY] Calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</li> <li>[KEY] Convert between different units of metric measure (for example, kilometre and and a turn (total 1)</li> </ul>		<ul> <li>Know angles are me estimate and compareflex angles.</li> <li>[KEY] Draw given an in degrees (*)</li> <li>Identify angles at a p (total 360°)</li> </ul>	gles, and measure them coint and one whole turn coint on a straight line	Statistics  • [KEY] Complete, read and interpret information in tables, including timestables.	
Spring 1	Number and place value  (KEY) Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.  Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000		Addition and subtraction  Solve addition and subtraction multistep problems in contexts, deciding which operations	numbers and the no and cubed (³). • [KEY] Solve problem and division includin	n and division equare numbers and cube tation for the squared (2) as involving multiplication ag using their knowledge ples, squares and cubes.	Measure  Estimate volume [for example,  using 1 cm³ blocks  to build cuboids  (including cubes)]  and capacity [for  example, using  water]		

Note – statements are from the expected standard for greater depth standard please see the LAT framework.

	Solve number problems and practical problems that involve numbers up to 1,000,000, negative numbers, rounding or jumping in steps.	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.     Establish whether a number up to 100 is prime and recall prime numbers up to 19.     Revisit solving problems involving addition, subtraction and a combination of these, including understanding he meaning of the equals sign.	Use all four operations to solve problems involving measure [for example length, mass, volume, money] using decimal notation, including scaling.
Spring 2	Statistics  Solve comparison, sum and difference problems using information presented in a line graph  Construct bar charts where needed across numerous subjects.	greater than 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]  • Add and subtract fractions with the same denominator and denominators that are multiples of the same number  • [KEY] Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a	ncluding cubes and 2D representations f rectangles to deduce d missing lengths and eween regular and essed on reasoning about es. d represent the position
Summer 1	Number and place value  Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.  Read Roman numerals to 1000 (M) an recognise years written in Roman numerals	Addition and subtraction  Use rounding to check answers to calculations and determine in the context of a problem, levels of accuracy  Multiplication and division  [KEY] Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.  Revisit solving problems involving addition, subtraction and a combination of these, including understanding he meaning of the equals sign.	Measure  Understand the use of approximate equivalences between metric units and common imperial units such as inches, pounds and pints.  Solve problems involving converting between units of time  Revisit using all four operations to solve problems involving measure [for example,

			Shape and position	length, mass, volume, money] using decimal notation, including scaling	
Summer 2	<ul> <li>Fractions</li> <li>Solve problems involving numbers up to three decimal places.</li> <li>[KEY] Read and write decimal numbers as fractions [for example, 0.71 = 71/100]</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> </ul>	Test week	<ul> <li>Shape and position</li> <li>Continue to identify 3D shapes, including cubes and other cuboids, from 2D representations.</li> <li>Continue to use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>[KEY] Continue to distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> <li>Continue to 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>	Statistics  Continue to solve comparison, sum and difference problems using information presented in a line graph  Construct bar charts where needed across numerous subjects.	Revision and recap

YEAR 5	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Year 4 Recap					Test week	
Autumn 2							
Spring 1							
Spring 2		Test week					
Summer 1							
Summer 2			Test week				