## BJA Maths LTP – Year 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
		Number: Place Value	4	Number: Addition	and Subtraction	Stat	istics	Num	ber: Multiplication and D	ivision	Measurement: Pe	erimeter and Area
Autumn Mental Maths Objectives All times tables Number bonds to 1 million + revise previous unit objectives	National Curriculum objectives         1. Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit         2. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000         3. Interpret negative numbers, including through zero         4. Round up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000         5. Solve number problems and practical problems that involve all of the above         6. Read Roman numerals to 1000 and recognise years written in Roman numerals         Small Steps -         Week 1         1000s, 100s, 10s and 1s         Numbers to 10,000         Numbers to 10,000         Numbers to 10,000         Counting in 10s, 100s, 1,000s, 10,000s and 100,000s         Compare and order numbers to 100,000         Compare and order numbers to 100,000         Round numbers to 1 million		National Curriculum objectives 1. Add and subtract whole numbers with more than 4 digits, including using formal written methods 2. 2. Add and subtract numbers mentally with increasingly large numbers 3. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy 4. Solve multi-step problems in contexts, deciding which operations and methods to use and why Small Steps - Week 1 • Add whole numbers numbers with more than 4 digits (column method) – 1 exchange and then more than one Week 2 • Subtract whole numbers numbers with more than 4 digits (column method) – 1 exchange and then more than one Throughout unit • Round to estimate and approximate • Inverse operations (+ and -) • Multi-step addition and subtraction problems		Statistics National Curriculum objectives 1. Solve comparison, sum and difference problems using information presented in a line graph 2. Complete, read and interpret information in tables, including timetables. Small Steps - Week 1		Number: Multiplication and Division National Curriculum objectives 1. identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers 2. Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers 3. Establish whether a number up to 100 is prime and recall prime numbers up to 5. Multiply and divide numbers mentally drawing upon known facts 7. Multiply and divide numbers and those involving decimals by 10, 100 al 1000 8. Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) 9. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Small Steps - Week 1     Multiples     Factors     Common factors     Prime numbers     Square numbers     Cube numbers     Week 2     Multiply by 10, 100, 1,000     Divide by 10, 100, 1,000     Multiples of 10, 100, 1,000 (last objective)		or pairs of a number, and e factors and composite call prime numbers up to 19 nown facts g decimals by 10, 100 and rs, and the notation for cluding using their	Measurement: Perimeter and Area National Curriculum objectives 3. Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres 4. 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 Small Steps - Week 1 <ul> <li>Measure perimeter                 (perimeter on a grid, of rectangles and of                 rectilinear shapes)</li> <li>Calculate perimeter</li> <li>Week 2                  <ul> <li>Counting squares</li> <li>Area of compound shapes</li> <li>Area of irregular shapes</li> </ul> </li> </ul>		
	• Roman numera			Link to money								
Cross curricular links												
	Num	ber: Multiplication and C	Division			Number:	Fractions			Nun	hber: Decimals and Percer	ntages
Spring Mental Maths Objectives All times tables Money – finding change Time – nearsest minute/ 24 hour clock + revise previous unit objectives	<ul> <li>National Curriculum objectives</li> <li>4. 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>6. 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>10. Solve problems involving addition, subtraction, multiplication and division and a combination of these, understanding the meaning of the equals sign</li> <li>11. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li> <li>Small Steps -</li> <li>Week 1 <ul> <li>Multiply 2/3/4 digits by 1 digit</li> <li>Divide 2/3/4 digits by 1 digit</li> <li>Dived with remainders</li> </ul> </li> <li>Week 3 <ul> <li>Multiplication and division misconceptions</li> <li>Problem solving (including scaling)</li> </ul> </li> </ul>		National Curriculum objectives 1. compare and order fractions whose denominators are all multiples of the same number 2. Identify, name and write equivalent fractions of a given fraction, represented visually, 3. Recognise mixed numbers and improper fractions and convert from one form to the o fractions with the same denominator and denominators that are multiples of the same nu 5. Multiply proper fractions and mixed numbers by whole numbers, supported by material Small Steps - Week 1      Equivalent fractions     Improper fractions to mixed numbers     Mixed numbers to improper fractions     Mixed numbers to improper fractions     Veek 2     Number sequences     Compare and order fractions greater than one     Compare and order fractions     Add and subtract fractions     Add fractions     Add fractions     Add mixed numbers			<pre>% % % % % % % % % % % % % % % % % % %</pre>			<ul> <li>National Curriculum objectives</li> <li>6. Read and write decimal numbers as fractions [for example, 0.71 = 100 71 ]</li> <li>7. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> <li>8. Round decimals with two d.p to the nearest whole number and to one d.p</li> <li>9. Read, write, order and compare numbers with up to three decimal places</li> <li>10. Solve problems involving number up to three decimal places</li> <li>11. Recognise the % 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 12. Solve problems which require knowing percentage and decimal equivalents of and those fractions with a denominator of a multiple of 10 or 25</li> <li>Small Steps -</li> <li>Weeks 1 &amp; 2 <ul> <li>Decimals up to 2 d.p</li> <li>Decimals as fractions</li> <li>Thousands as decimals</li> <li>Rounding decimals (2 d.p)</li> <li>Order and compare decimals (3 d.p)</li> </ul> </li> <li>Week 3 <ul> <li>Understand percentages</li> <li>Percentages of fractions and decimals</li> <li>Equivalent F.D.P</li> </ul> </li> </ul>			
links												
Summer Mental Maths Objectives All times tables Money – finding change Time – nearsest minute/ 24 hour clock	Small Steps - Week 1 Adding decim: Adding decim: Adding whole: Complements Week 2 Adding decim Adding decim Adding whole: Complements Week 3 Decimal sequ Multiplying de Dividing decir	Number: Decimals       Geometry: Properties of         Is with the same number of decimal places       National Curriculum objectives         Is with different number of decimal places       1. Identify 3-D shapes from 2-D representations         is with different number of decimal places       2. Know angles are measured in degrees: estimate ar         is one       3. Draw given angles, and measure them in degrees (         is with the same number of decimal places       3. Draw given angles, and measure them in degrees (         is with different number of decimal places       3. Draw given angles, and measure them in degrees (         is with different number of decimal places       3. Draw given angles, and measure them in degrees (         is with different number of decimal places       3. Draw given angles, and measure them in degrees (         is with different number of decimal places       5. Use the properties of rectangles to deduce related in lengths and angles         is one       6. Distinguish between regular and irregular polygons about equal sides and angles.         sences       Small Steps -       We         weeks 1 & 2       Identify angles         is by 10, 100, 1,000       Compare and order angles       Measuring with a protractor			of Shape and compare acute, (o) Il 3600 )angles at a point ultiples of 900 I facts and find missing s based on reasoning eek 3 • Triangles • Quadrilaterals • Calculating lengths and	Geometry: Position and Direction         National Curriculum objectives         1. 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         point       Small Steps -         Week 1       •         ing       •         ng       •         Week 2       •         Lines of symmetry       •         Complete a symmetric figure         •       Reflection         •       Reflection with coordinates		Measurement: Covering Units         National Curriculum objectives         1. Convert between different units of metric measure         2. Understand and use approximate equivalences between metric units and common imperial units         6. Solve problems involving converting between units of time         Small Steps -         Week 1         • Kilograms and kilometres         • Millimetres and millilitres         • Imperial units         • Week 2         Recap time to nearsest minute and 24 hour clock         • Converting units of time		Measurement: Volume National Curriculum objectives 5. Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Small Steps - Week 1	Measurement: Problem Solving Week Include money and scaling	
unit objectives	Link complements to one	to money – making £1		<ul> <li>Drawing lines accurately</li> <li>Calculating an</li> <li>Calculating an</li> </ul>	and angles gles - straight line gles around a point	<ul> <li>angles in shapes</li> <li>Regular and irregular polygons</li> <li>Reasoning about 3D shapes</li> </ul>	Link to topic		• Timetables Check money – £/ps		capacity	

Cross curricular		
links		