

Autumn Term				
Weeks 1-4	Weeks 5-7	Week 8	Weeks 9-11	Week 12
Number: Place Value	Number: Addition and Subtraction	Measurement: Area	Number: Multiplication and Division	Consolidation
<p>count in multiples of 6, 7, 9, 25 and 1,000</p> <p>find 1,000 more or less than a given number</p> <p>count backwards through 0 to include negative numbers</p> <p>recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s)</p> <p>order and compare numbers beyond 1,000</p> <p>identify, represent and estimate numbers using different representations</p> <p>round any number to the nearest 10, 100 or 1,000</p> <p>solve number and practical problems that involve all of the above and with increasingly large positive numbers</p> <p>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.</p>	<p>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>estimate and use inverse operations to check answers to a calculation</p> <p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <p>convert between different units of measure</p>	<p>recall multiplication facts for multiplication tables up to 12×12</p> <p>use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; multiplying together 3 numbers</p> <p>recognise and use factor pairs and commutativity in mental calculations</p> <p>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p>	
Steps for Learning				
<p>Step 1 Represent numbers to 1,000</p> <p>Step 2 Partition numbers to 1,000</p> <p>Step 3 Number line to 1,000</p> <p>Step 4 Thousands</p> <p>Step 5 Represent numbers to 10,000</p> <p>Step 6 Partition numbers to 10,000</p> <p>Step 7 Flexible partitioning of numbers to 10,000</p> <p>Step 8 Find 1, 10, 100, 1,000 more or less</p> <p>Step 9 Number line to 10,000</p> <p>Step 10 Estimate on a number line to 10,000</p> <p>Step 11 Compare numbers to 10,000</p> <p>Step 12 Order numbers to 10,000</p> <p>Step 13 Roman numerals</p> <p>Step 14 Round to the nearest 10</p> <p>Step 15 Round to the nearest 100</p> <p>Step 16 Round to the nearest 1,000</p> <p>Step 17 Round to the nearest 10, 100 or 1,000</p>	<p>Step 1 Add and subtract 1s, 10s, 100s and 1,000s</p> <p>Step 2 Add up to two 4-digit numbers - no exchange</p> <p>Step 3 Add two 4-digit numbers - one exchange</p> <p>Step 4 Add two 4-digit numbers - more than one exchange</p> <p>Step 5 Subtract two 4-digit numbers - no exchange</p> <p>Step 6 Subtract two 4-digit numbers - one exchange</p> <p>Step 7 Subtract two 4-digit numbers - more than one exchange</p> <p>Step 8 Efficient subtraction</p> <p>Step 9 Estimate answers</p> <p>Step 10 Checking strategies</p>	<p>Step 1 What is area?</p> <p>Step 2 Count squares</p> <p>Step 3 Make shapes</p> <p>Step 4 Compare areas</p>	<p>Step 1 Multiples of 3</p> <p>Step 2 Multiply and divide by 6</p> <p>Step 3 6 times-table and division facts</p> <p>Step 4 Multiply and divide by 9</p> <p>Step 5 9 times-table and division facts</p> <p>Step 6 The 3, 6 and 9 times-tables</p> <p>Step 7 Multiply and divide by 7</p> <p>Step 8 7 times-table and division facts</p> <p>Step 9 11 times-table and division facts</p> <p>Step 10 12 times-table and division facts</p> <p>Step 11 Multiply by 1 and 0</p> <p>Step 12 Divide a number by 1 and itself</p> <p>Step 13 Multiply three numbers</p>	
Times table Rock Stars				
Recall and use multiplication and division facts for 2,5,10,3,4,8 revisit				



Spring Term			
Weeks 1-3	Weeks 4-5	Weeks 6-9	Weeks 10-12
Number: Multiplication and Division	Measurement: Length and Perimeter	Number: Fractions	Number: Decimals
<p>recall division facts for multiplication tables up to 12×12</p> <p>use place value, known and derived facts to divide mentally, including: dividing by 1</p> <p>recognise and use factor pairs and commutativity in mental calculations</p>	<p>find the area of rectilinear shapes by counting squares</p>	<p>recognise and show, using diagrams, families of common equivalent fractions</p> <p>count up and down in hundredths; recognise that hundredths arise when dividing an object by a 100 and dividing tenths by 10.</p> <p>solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</p> <p>add and subtract fractions with the same denominator</p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>Convert between different units of measure [for example, kilometre to metre]</p>
Steps for Learning			
<p>Step 1 Factor pairs</p> <p>Step 2 Use factor pairs</p> <p>Step 3 Multiply by 10</p> <p>Step 4 Multiply by 100</p> <p>Step 5 Divide by 10</p> <p>Step 6 Divide by 100</p> <p>Step 7 Related facts – multiplication and division</p> <p>Step 8 Informal written methods for multiplication</p> <p>Step 9 Multiply a 2-digit number by a 1-digit number</p> <p>Step 10 Multiply a 3-digit number by a 1-digit number</p> <p>Step 11 Divide a 2-digit number by a 1-digit number (1)</p> <p>Step 12 Divide a 2-digit number by a 1-digit number (2)</p> <p>Step 13 Divide a 3-digit number by a 1-digit number</p> <p>Step 14 Correspondence problems</p> <p>Step 15 Efficient multiplication</p>	<p>Step 1 Measure in kilometres and metres</p> <p>Step 2 Equivalent lengths (kilometres and metres)</p> <p>Step 3 Perimeter on a grid</p> <p>Step 4 Perimeter of a rectangle</p> <p>Step 5 Perimeter of rectilinear shapes</p> <p>Step 6 Find missing lengths in rectilinear shapes</p> <p>Step 7 Calculate the perimeter of rectilinear shapes</p> <p>Step 8 Perimeter of regular polygons</p> <p>Step 9 Perimeter of polygons</p>	<p>Step 1 Understand the whole</p> <p>Step 2 Count beyond 1</p> <p>Step 3 Partition a mixed number</p> <p>Step 4 Number lines with mixed numbers</p> <p>Step 5 Compare and order mixed numbers</p> <p>Step 6 Understand improper fractions</p> <p>Step 7 Convert mixed numbers to improper fractions</p> <p>Step 8 Convert improper fractions to mixed numbers</p> <p>Step 9 Equivalent fractions on a number line</p> <p>Step 10 Equivalent fraction families</p> <p>Step 11 Add two or more fractions</p> <p>Step 12 Add fractions and mixed numbers</p> <p>Step 13 Subtract two fractions</p> <p>Step 14 Subtract from whole amounts</p> <p>Step 15 Subtract from mixed numbers</p>	<p>Step 1 Tenths as fractions</p> <p>Step 2 Tenths as decimals</p> <p>Step 3 Tenths on a place value chart</p> <p>Step 4 Tenths on a number line</p> <p>Step 5 Divide a 1-digit number by 10</p> <p>Step 6 Divide a 2-digit number by 10</p> <p>Step 7 Hundredths as fractions</p> <p>Step 8 Hundredths as decimals</p> <p>Step 9 Hundredths on a place value chart</p> <p>Step 10 Divide a 1- or 2-digit number by 100</p>
Times table Rock Stars			
Recall and use multiplication and division facts for 6, 7, 9		Recall and use multiplication and division facts for the 11, 12	



Summer Term						
Weeks 1-2	Weeks 3-4	Weeks 5-6	Week 7	Weeks 8-9	Week 10	Weeks 11-12
Number: Decimals	Measurement: Money	Measurement: Time	Consolidation	Geometry: Properties of Shape	Statistics	Geometry: Position and Direction
<p>recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$</p> <p>Understand the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>round decimals with 1 decimal place to the nearest whole number</p> <p>compare numbers with the same number of decimal places up to 2 decimal places</p>	<p>estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>read, write and convert time between analogue and digital 12 and 24-hour clocks</p> <p>solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</p>		<p>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>identify acute and obtuse angles and compare and order angles up to 2 right angles by size</p> <p>identify lines of symmetry in 2-D shapes presented in different orientations</p> <p>complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</p> <p>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>describe positions on a 2-D grid as coordinates in the first quadrant</p> <p>describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>plot specified points and draw sides to complete a given polygon</p>
Steps for Learning						
<p>Step 1 Make a whole with tenths</p> <p>Step 2 Make a whole with hundredths</p> <p>Step 3 Partition decimals</p> <p>Step 4 Flexibly partition decimals</p> <p>Step 5 Compare decimals</p> <p>Step 6 Order decimals</p> <p>Step 7 Round to the nearest whole number</p> <p>Step 8 Halves and quarters as decimals</p>	<p>Step 1 Write money using decimals</p> <p>Step 2 Convert between pounds and pence</p> <p>Step 3 Compare amounts of money</p> <p>Step 4 Estimate with money</p> <p>Step 5 Calculate with money</p> <p>Step 6 Solve problems with money</p>	<p>Step 1 Years, months, weeks and days</p> <p>Step 2 Hours, minutes and seconds</p> <p>Step 3 Convert between analogue and digital times</p> <p>Step 4 Convert to the 24-hour clock</p> <p>Step 5 Convert from the 24-hour clock</p>		<p>Step 1 Understand angles as turns</p> <p>Step 2 Identify angles</p> <p>Step 3 Compare and order angles</p> <p>Step 4 Triangles</p> <p>Step 5 Quadrilaterals</p> <p>Step 6 Polygons</p> <p>Step 7 Lines of symmetry</p> <p>Step 8 Complete a symmetric figure</p>	<p>Step 1 Interpret charts</p> <p>Step 2 Comparison, sum and difference</p> <p>Step 3 Interpret line graphs</p> <p>Step 4 Draw line graphs</p>	<p>Step 1 Describe position using coordinates</p> <p>Step 2 Plot coordinates</p> <p>Step 3 Draw 2-D shapes on a grid</p> <p>Step 4 Translate on a grid</p> <p>Step 5 Describe translation on a grid</p>
Times table Rock Stars						
Recall and use multiplication and division facts for the all times tables						

