



<p><b>Autumn</b></p>	<p><b>Number : Place value</b> (3 weeks)</p> <p>I can read, write, order and compare numbers to at least 1, 000, 000 and determine the value of each digit. I can count forwards and backwards in steps of power of 10 for any given number up to 1, 000, 000 I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero I can round any number up to 1, 000, 000 to the nearest 10, 100, 1,000, 10,000 and 100, 000 I can read Roman numerals to 1000 and recognise years written in Roman numerals. I can solve number problems and practical problems using all of the above.</p>	<p><b>Number : Addition and subtraction</b> (3 weeks)</p> <p>I can add and subtract whole numbers with more than 4 digits, including efficient column methods I can add and subtract numbers with up to 2dp in various contexts I can add and subtract mentally, with increasingly large numbers I can use rounding to check answers to calculation and determine, in the context of a problem, levels of accuracy. I can solve addition and subtraction multi-step problems making decisions about which method and why</p>	<p><b>Number: Multiplication and division</b> (4 weeks)</p> <p>I can solve problems involving multiplication and division where larger numbers are used by decomposing them into factors, multiples, squares and cubes I can multiply numbers up to 4 digits by a single digit. I can multiply numbers up to 3 digits by a two-digits. I can divide up to 4 digits by a single digit using an efficient method of short division, interpret remainders contextually. I can interpret remainders as fractions. I can interpret remainders as decimals. I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal sign I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates I can identify multiples and factors including finding all factor pairs and common factors of two numbers. I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers I can establish whether a number less than 100 is prime and recall numbers to 19 that are prime. I can recognise squared numbers and cubed numbers and recognise the associated notation. I can multiply and divide whole numbers by 10, 100 and 1,000 I can multiply and divide mentally, drawing on known facts.</p>	<p><b>Measurement : Length and perimeter</b> (2 weeks)</p> <p>I can measure and calculate the perimeter of composite rectilinear shapes in cm and m.  I can calculate and compare the area of squares and rectangles using standard units and estimate the area of irregular shape.</p>
<p><b>Spring</b></p>	<p><b>Number: fractions</b> (4-5 weeks)</p> <p>Count up and down in thousandths I can identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths I can compare and order fractions whose denominators are all multiples of the same number I can recognise mixed numbers and improper fractions and convert from one to another. I can write mathematical statements <math>&gt;1</math> as a mixed number I can add and subtract fractions with the same denominator and related fractions I can multiply proper fractions and mixed numbers by whole numbers, supported by diagrams and materials</p>	<p><b>Number: fractions</b> (1/2 weeks)</p> <p>I can read and write decimals as fractions I can read, write order and compare numbers with up to 3dp I can recognise thousandths and relate to tenths, hundredths and decimal equivalents. I can round decimals with two decimal places to the nearest whole number and to one dp. I can multiply and divide decimals by 10, 100 and 1, 000 I can solve problems involving numbers up to 3 decimal places</p>	<p><b>Number: percentages, decimals and fractions</b> (2 weeks)</p> <p>I can recognise the % symbol and understand what a percent is (find a percentage of an amount) I can write a % as a fraction with a denominator of 100 and as a decimal fraction I can solve problems which require knowing percentage and decimal equivalents <math>\frac{1}{2}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math> and <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</p>	
<p><b>Summer</b></p>	<p><b>Measurement : money/time/conversion of units.</b> (2/3 weeks)</p> <p>I can solve problems involving converting between units of time and using timetables. I can solve problems using all 4 operations involving measures (e.g. example, length, mass, volume, money) using decimal notation, including scaling. I understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p><b>Measurement: Volume</b> (1 week)</p> <p>I can estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)) and capacity (for example, using water)</p>	<p><b>Geometry : properties of shape</b> (2 weeks)</p> <p>I can identify 3D Shapes including cubes and cuboids from 2D representations I know angles are measured in degrees. I can estimate, measure, draw and compare angles acute, obtuse and reflex angles and use the degrees sign. I can draw angles and measure them in degrees. I can identify angles at a straight line as being 180 and a full turn as 360. I can recognise reflex angles. I can draw shapes using given dimensions and angles. I can use the properties of rectangles to deduce related facts and find missing lengths and angles. I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p>	<p><b>Geometry : position and direction</b> (1 week)</p> <p>I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language and know that the shape hasn't changed.</p>	<p><b>Statistics</b> (2 weeks)</p> <p>I can solve comparison, sum and difference problems using information presented in line graphs. I can complete, read and interpret information in tables (including timetables)</p>