

Week	Objectives	Small Learning Steps
1	<b>Multiplication and Division</b> <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Multiply two-digit by a one-digit number using formal written layout</li> </ul>	<ul style="list-style-type: none"> <li>Revise multiplying 3 single digit numbers</li> <li>Revise <math>x</math> by 0 and dividing by 1</li> <li>Multiply 1 digit by 2 digit numbers ( range of methods moving to formal method)</li> <li>Multiplication of 1 x 2 digit in context of money, other measures, link to area.</li> <li>Rules of commutativity of 1 x 2 digit numbers</li> <li>Estimation and checking of answers</li> <li>Empty box problems <math>? \times 24 = 48</math></li> </ul>
2	<b>Geometry</b> <ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size</li> </ul>	<ul style="list-style-type: none"> <li>Revise understanding of right angles linked to angle of turn</li> <li>Revise right angles in a range of polygons</li> <li>Measure right angles using a protractor and a set square</li> <li>Recognise angles larger and smaller than a right angle</li> <li>Recognise what an acute angle is, sort angles into larger/smaller than, order angles</li> <li>Recognise what an obtuse angle is sort angles into larger/smaller than order angles</li> <li>Measure acute and obtuse angles on a straight line using a protractor</li> <li>Measure acute and obtuse angles on a diagonal line using a protractor</li> <li>Identify angles within triangles and quadrilaterals and measure them</li> </ul>
3	<b>Fractions</b> <ul style="list-style-type: none"> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> <li>Recognise and write decimal equivalents of any number of tenths or hundredth</li> <li>Find 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</li> <li>Recognise and show, using diagrams, families of common equivalent fractions</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>Count in hundredths forwards and backwards on a number line including above 1.</li> <li>Recognise images of hundredths and tenths</li> <li>Understand that <math>1/100</math> means split into 100 equal parts and apply to other unit fractions</li> <li>Use a fraction wall to recognise unit and non-unit fractions such as <math>1/5</math> etc.</li> <li>Order a set of unit and non – unit fractions using a fraction wall for support</li> <li>Compare a set of fractions using a fraction wall and the <math>&lt;&gt;</math> signs</li> <li>Place fractions on a number line</li> <li>Sort a set of images showing different fractions</li> <li>Identify equivalences of <math>1/2</math>, <math>1/3</math>, <math>1/4</math>, <math>1/5</math>, <math>1/10</math> etc.</li> <li>Compare and order a set of equivalent fractions using <math>&lt;&gt;</math> signs</li> <li>Sort a set of equivalent fractions into families</li> <li>Solve problems with equivalent fractions</li> </ul>

4	<b>Fractions</b> <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator</li> <li>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</li> <li>Recognise and show, using diagrams, families of common equivalent fractions</li> </ul>	<ul style="list-style-type: none"> <li>Add fractions with the same denominator.</li> <li>Number families for fractions with the same denominator e.g. if I know <math>2/3 + 2/3 = 4/3 = 1 \frac{1}{3}</math> what else do I know?</li> <li>Extend to using more than 2 fractions in above e.g. <math>4/3 = 2/3 + 1/3 + 1/3</math></li> <li>Use images to show understanding</li> <li>Empty box problems e.g. <math>7/5 = \square + 4/5</math></li> <li>Find all the possibilities for the values of the? e.g. <math>7/5 = ?/5 + ?/5</math>. There are multiple answers.</li> <li>Word problems linked to above</li> <li>Subtract fractions with the same denominator</li> <li>Add and subtract equivalent fractions within families</li> <li>Word problems link to above – make these 2 step.</li> </ul>
5	<b>Time</b> <ul style="list-style-type: none"> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>	<ul style="list-style-type: none"> <li>Check that pupils can read the time to the minute and 5 minutes.</li> <li>Check pupils can convert between 12 hour and 24 hour clocks</li> <li>Read simple timetables 12 hour and 24 hour times and calculate differences in times</li> <li>Compare times and know when they are in the day.</li> <li>Solve problems of converting days to weeks and vice versa – link to 7 x table</li> <li>Solve problems minutes to hours and vice versa link to 60 X</li> <li>Solve problems years to months and vice versa link to 12 x</li> <li>Solve problems minutes to seconds and vice versa link to 60 x</li> </ul> <p><i>Science and PE activities that involve use of a stopwatch and compare events and times.</i></p>
6/7	<b>4 rules through Statistics</b> <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> </ul>	<ul style="list-style-type: none"> <li>Read scales on charts – link to tables they need to know</li> <li>Add missing numbers to scales, charts and timetables</li> <li>Solve addition and subtraction problems from information in a table</li> <li>Solve addition and subtraction problems from information on a bar chart</li> <li>Solve addition and subtraction problems from information on a pictogram ( scale of 3,4,8)</li> <li>Solve addition and subtraction problems from information on a time graphs</li> <li>Solve multi step word problems for above</li> </ul>