

Year 5/6 Maths Overview

TERM	Year Group	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn Term 1		Number: Place Value		Assessment Week	Number: Four Operations			
	YEAR 5 NC Objectives	I can read, write, compare & order numbers up to 1 000 000 and determine the value of each digit	I can round any number up to 1 000 000 to the nearest 10,100,1000,10,000,100,000  I can count forwards and backwards with positive and negative whole numbers, including through zero  I can interpret negative numbers in context	Y5 teaching Y6 consolidation of: I can read Roman numerals to 1000 (M) I can recognise years written in Roman numerals I can count forwards or backwards in steps of powers of ten for any given number up to 1 000 000  All: Problem solving & Reasoning for first Place Value Unit	I can add whole numbers with more than 4 digits using the compact column method  I can subtract whole numbers with more than 4 digits using the compact column method	I can add numbers mentally with increasingly large numbers  I can subtract numbers mentally with increasingly large numbers  I use rounding to check answers to calculations and determine levels of accuracy  I can solve addition & subtraction multi-step problems in contexts, deciding which operations & methods to use and why.  I can multiply and divide whole numbers and decimals by 10, 100 and 100	I can multiply numbers up to 4 digits by 1 digit using short multiplication  I can multiply numbers up to 4 digits by a two digit number using a formal written method, including the grid methods, expanded column and long multiplication  I can divide numbers up to 4 digits by a one digit number using short division  I can multiply and divide numbers mentally, drawing on known facts.	I can identify multiples and factors  I can find all factor pairs of a number  I can find common factors of two numbers  I know and can use vocabulary or prime numbers, prime factors and composite numbers  I can recall prime numbers up to 19 and establish whether a number up to 100 is prime
	YEAR 6 NC Objectives	I can read, write, compare and order numbers up to 10 000 000 And can determine the value of each digit	I can round any whole number to a required degree of accuracy  I can use negative numbers in context I can calculate intervals across 0		Revisit Column Methods –Year 5 objectives ( as above)	I can solve addition & subtraction multi-step problems in contexts, deciding which operations & methods to use and why.  Revisit Y5: I can multiply and divide whole numbers & decimals by 10, 100 and 100	I can multiply multi-digit numbers up to 4 digits by a two digit whole number using long multiplication  I can divide numbers up to 4 digits by a two digit whole number using short and long division	I can identify common factors  I can identify common multiples  I can identify prime numbers

TERM	Year Group	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 2	YEAR 5 NC Objectives	Number: Fractions (Review: Place Value & Four operations)		Assessment week	Number: Fractions			
				Geometry: Position & Direction				
		<p>I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>Compare and order fractions whose denominators are multiples of the same number.</p> <p>I can count in fractions on a number line</p>	<p>I can convert a n improper fraction to a mixed number.</p> <p>I can convert a mixed number to an improper fraction</p> <p>I can write mathematical statements <math>&gt;1</math> as a mixed number e.g. <math>2/5 + 4/5 = 6/5 = 1 1/5</math></p>	<p>I can identify, describe and represent the position of a shape in a one quadrant axis</p> <p>I can identify, describe and represent the position of a shape in a four quadrant axis</p> <p>I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language and knowing that the shape has not changed.</p>	<p>I can order fractions whose denominators are all multiples of the same number.</p> <p>I can compare and order numbers <math>&gt;1</math></p> <p>I can compare and order number <math>&lt;1</math></p>	<p>I can add and subtract fractions with the same denominator</p> <p>I can add and subtract fractions with denominators that are multiples of the same number</p>	<p>I can multiply proper fractions by whole numbers, supported by materials and diagrams.</p>	<p>I can calculate fraction of an amount</p>

	<b>YEAR 6 NC Objectives</b>	<p>Recap equivalent fractions with Year 5</p> <p>I can use common factors to simplify fractions</p> <p>I can use common multiples to express fractions in the same denominator</p> <p>I can count in fractions on a number line</p>	<p>Revisit with Year 5:</p> <p>I can convert a n improper fraction to a mixed number.</p> <p>I can convert a mixed number to an improper fraction</p> <p>I can write mathematical statements <math>&gt;1</math> as a mixed number e.g. <math>2/5 + 4/5 = 6/5 = 1 1/5</math></p>	<p>I can describe positions on the full co-ordinate grid (four quadrants)</p> <p>I can draw and translate simple shapes on the coordinate plane and reflect them in the axis</p> <p>I can draw and reflect simple shapes in the axis on a co-ordinate grid</p>	<p>I can compare and order numbers <math>&gt;1</math></p> <p>I can compare and order number <math>&lt;1</math></p> <p>I can compare fractions by finding the LCD</p> <p>I can compare fractions by finding a common numerator</p>	<p>I can add and subtract fractions with different denominators, using the concept of equivalent fractions</p> <p>I can add and subtract fractions and mixed numbers, using the concept of equivalent fractions</p>	<p>I can multiply simple pairs of fractions, writing the answer in its simplest form</p> <p>I can divide proper fractions by whole numbers.</p>	<p>I can calculate fractions of an amount</p> <p>I can calculate fractions of an amount –find the whole</p>
<b>Spring 1</b>	<b>Year 5 NC objectives</b>	Year 5/6 Number: Decimals & Percentages		Assessment week	Y5/6: Number: Decimals and Percentages	Y5: Number: Decimals		
						Y6: Algebra		
		<p>I can read and write numbers with up to 3 decimal places</p> <p>I can read and write decimal numbers as fractions</p> <p>I can recognise and use</p>	<p>I can read number with up to 3 decimal places</p> <p>I can write number with up to 3 decimal places</p> <p>I can round decimals with</p>	<p>I can multiply whole numbers and those involving decimals by 10, 100 and 100</p> <p>I can divide whole numbers and those involving decimals by 10, 100 and 100</p>	<p>I recognise the % symbol and understand that it relates to “number of parts per hundred”</p> <p>I can write percentages as a fraction with a denominator of 100</p> <p>I can write percentages as a decimal</p>	<p>I can add and subtract decimals within 1</p> <p>I can cross a whole when adding and subtracting with decimals</p> <p>I can add and subtract numbers with the same amount of dp</p>	<p>I can add and subtract numbers with a differing number of dp</p> <p>I can add and subtract decimals from whole numbers</p>	

		thousandths and relate them to tenths, hundredths and decimal equivalents	2dp to the nearest whole number  I can order numbers with up to 3dp  I can compare numbers with up to 3dp  I can solve problems with involving numbers with up to 3dp		I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ 4.5 and those fractions with a denominator of a multiple of 10 or 25			
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	<b>Year 6 NC objectives</b>	<p>I can identify the value of each digit in numbers given to 3dp</p> <p>I can associate a fraction with division and calculate decimal fraction equivalents – decimal to fraction and fraction to decimal</p> <p>I can recall and use equivalences between fractions, decimals and percentages, including in different contexts</p> <p>I can compare and order FDP</p>	<p>Recap on reading, writing, comparing and ordering decimals up to 3dp</p> <p>I can multiply one digit numbers with up to 2dp by whole numbers</p> <p>I can divide decimals by integers</p> <p>I can use short division where the answer has up to 2 dp</p>	<p>I can multiply and divide numbers by 10, 100 and 100, giving answers to 3 dp</p>	<p>I can calculate a percentage of an amount (10% 5%, 15% 1%)</p> <p>I can solve problems (e.g. missing amounts) involving the calculation of percentages</p>	<p>I can find a rule for one and 2 step problems</p> <p>I can generate and describe linear number sequences</p> <p>I can express missing number problems algebraically</p>	<p>I can find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>I can enumerate possibilities of combinations with two variables</p>	
<b>Spring 2</b>	<b>Year 5 NC objectives</b>	<b>Geometry: properties of Shape</b>	<b>Assessment week</b>	<b>Measurement: Perimeter, Area &amp; Volume</b>		<b>Measurement: Converting Units</b>		
		I know angles are measured in degrees and can estimate and	I can identify angles at a point and one whole turn (360)	I can identify 3d shapes, including cubes/other	I can measure and calculate the perimeter of composite	I can estimate the area of irregular shapes	I can convert between different units of metric measure (e.g. km-m; cm)	

		<p>compare acute, obtuse and reflex angles</p> <p>I can draw given angles and measure them in degrees using a protractor</p>	<p>I can identify angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180)</p> <p>I can identify other multiples of 90 degrees</p> <p>I can use the properties of rectangles to deduce related facts and find missing lengths and angles</p>	<p>cuboids, from 2d representations</p> <p>I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p>	<p>rectilinear shapes in cm and m</p> <p>I can calculate and compare the area of rectangles (including squares) , and including using standard units, square centimetres (cm<sup>2</sup>) and square meters (m<sup>2</sup>)</p> <p>I can calculate the area of compound shapes</p>	<p>I can estimate volume e.g. using 1cm<sup>3</sup> blocks to build cuboids (including cubes) and capacity (e.g. using water)</p>	<p>and m, cm and mm , g-kg, l and ml)</p> <p>I understand and can use approximate equivalences between metric units and common imperial units e.g. inches, pounds and pints</p> <p>I can use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation , including scaling</p>	
	<b>Year 6 NC objectives</b>	<p>I can draw given angles and measure them in degrees using a protractor</p> <p>I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p>	<p>I can find unknown angles in any triangles</p> <p>I can find unknown angles in any quadrilaterals</p> <p>I can find unknown angles in any regular polygons</p> <p>I can draw 2d shapes using given dimensions and angles</p>	<p>I can recognise, describe and build simple 3d shapes, including making nets</p> <p>I can compare and classify geometric shapes based on their properties and sizes</p>	<p>I can measure and calculate the perimeter of composite rectilinear shapes in cm and m</p> <p>I can recognise when it is possible to use formulae for areas of shape</p> <p>I can recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>I can calculate the area of triangles</p>	<p>I can calculate the area of parallelograms</p> <p>I recognise when it is possible to use volume for shapes</p> <p>I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cm<sup>3</sup> and cubic metres m<sup>3</sup> and extending to other units e.g. mm<sup>3</sup> &amp; km<sup>3</sup></p>	<p>I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to larger units and vice versa using decimal notation up to 3dp</p> <p>I can solve problems involving the calculation and conversion of measure, using decimal notation up to 3dp where appropriate</p> <p>I can convert between miles and km</p>	

Summ er 1	Year 5: Measurement Time	Number: Statistics	SATS PREP	SATS WEEK	STEM WEEK?		
	Y6: Number Ratio						
	<p>I can read and write the time on an analogue and digital clock using am and pm notation</p> <p>I can read and convert time to 24hr</p> <p>I can calculate time intervals understanding that the time system is not metric</p>	<p>I can solve comparison, sum and difference problems using information presented in a line graph</p> <p>I can complete, read and interpret information in tables, including timetables</p>					
	<p>I understand the terms ratio and proportion and relate it to fractions</p> <p>I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p>I can solve problems</p>	<p>I can interpret and construct line graphs &amp; use to solve problems</p> <p>I can illustrate and name parts of circles including radius, diameter, and circumference and know that the diameter is twice the radius</p> <p>I can interpret and construct</p>					

