

The Piggott School: Charvil Primary



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan
We live with love and compassion, seeking help in times of need

Curriculum Map: Maths Year 3

Long Term Plan

Autumn	Spring	Summer
Investigating Number Systems Pattern Sniffing Solving Calculation Problems Generalising Arithmetic Exploring Shape	Reasoning with Measures Discovering Equivalence Reasoning and Fractions Solving Number Problems Investigating Statistics	Visualising Shape Exploring Change Proportional Reasoning Describing Position Measuring and Estimating

Content Declarative Knowledge 'I know' and Skills Procedural Knowledge 'I know how to'

Number				Measurement	Geometry	Statistics
Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions, Decimals & Percentages		Properties of Shapes	
count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	interpret and present data using bar charts, pictograms and tables

recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	measure the perimeter of simple 2-D shapes	recognise angles as a property of shape or a description of a turn	solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables
compare and order numbers up to 1000	estimate the answer to a calculation and use inverse operations to check answers	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	add and subtract amounts of money to give change, using both £ and p in practical contexts	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	
identify, represent and estimate numbers using different representations	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction		recognise and show, using diagrams, equivalent fractions with small denominators	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	identify horizontal and vertical lines and pairs of perpendicular and parallel lines	

<p>read and write numbers up to 1000 in numerals and in words</p>			<p>add and subtract fractions with the same denominator within one whole [for example, $5/7 + 1/7 = 6/7$]</p>	<p>estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</p>		
<p>solve number problems and practical problems involving these ideas</p>			<p>compare and order unit fractions, and fractions with the same denominators</p>	<p>know the number of seconds in a minute and the number of days in each month, year and leap year</p>		
			<p>solve problems that involve all of the above</p>	<p>compare durations of events [for example to calculate the time taken by particular events or tasks]</p>		

Vocabulary

Number and place value	Addition and subtraction	Multiplication and division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	Data/statistics
Numbers to one thousand	Column addition and subtraction	Product Multiples of four, eight, fifty and one hundred Scale up	Leap year Twelve-hour/twenty-four-hour clock Roman numerals I to XIII	Greater/less than ninety degrees Orientation (same orientation, different orientation)	Horizontal, perpendicular and parallel lines	Numerator, denominator Unit fraction, non-unit fraction Compare and order Tenths	Chart, bar chart, frequency table, Carroll diagram, Venn diagram Axis, axes Diagram