

St James' Church of England Primary School Key Learning in Maths – Year 3





Haslingden St. James' C. E. Primary School Curriculum Map 2023-2024 with Key Objectives Year 3



			Autumr	n Term			
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Autumn 1	 PLACE VALUE identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100 			 ADDITION & SUBTRACTION Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundred: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. 			
Autumn 2	calculation operations • Solve prob number profacts, place	ne answer to a and use inverse to check answers. lems, including missing oblems, using number e value, and more ddition and	 Count from for the 3, 4 Write and conditions multiplications with the conditions of the country of t	and 8 multiplication calculate mathematic on tables they know, al and progressing to ems, including missing	, 50 and 100 Recall and use mul	and division using the stimes one-digit numbers, multiplication and division,	



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Spring Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Spring 1	 Identify me Identify re Multiply a (including) Divide a 2 (including) Solve prob Identify th 	ON AND DIVISION ultiples of 10 lated multiplication and 2 digit number by a 1 di when exchanging is need digit number by a one di when there are remaind plems involving scaling. e most efficient way to so on problems.	git number ded) igit number lers)	 LENGTH AND PERIMETER Measure items using millimetres, centimetres and metres Find equivalences between metres, centimetres and millimetres. Compare, add and subtract different lengths Measure and calculate perimeter of rectangles. 			
Spring 2	 FRACTIONS Understand that the denominator tells us how many equal parts a whole is split into. Compare and order unit and non-unit fractions. Place and count fractions on a number line Find equivalent fractions on a number line and on bar models. 			Find equivaCompare, a	PACITY o measure mass in grams and kil lent masses (grams and kilogram dd and subtract different masses pacity and volume in millilitres a	s) 	

Summer Term								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		
Summer 1	FRACTIONS Add and subtract fractions Partition a whole amount Find unit and non-unit fractions of a set of objects Find fractions of amounts		MONEY Convert between pounds and pence Add and subtract money Find change		 TIME Recognise Roman Numerals up to 20 Read time on a digital and analogue clock to the nearest minute Use am and pm correctly Solve problems involving hours, days, months and years 			
Summer 2	 Find start times, end times and durations of events. Convert between different units of time 	 Recognise angles as turn Identify and draw right angles Compare angles Measure and draw angles Recognise horizontal, vertical, parallel and perpendicular lines Recognise, describe and draw 2D shapes Recognise and describe 3D shapes 		 Interpret and draw pictograms Interpret and draw bar charts Collect and represent data in a variety of effective ways Interpret information from two-way tables. 		ASSESSMENT AND CONSOLIDATION		

- Count from 0 in multiples of 4, 8, 50 and 100.
- Count up and down in tenths.
- Read and write numbers up to 1000 in numerals and in words.
- Read and write numbers with one decimal place.
- Identify, represent and estimate numbers using different representations (including the number line).
- Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).
- Identify the value of each digit to one decimal place.
- Partition numbers in different ways (e.g. 146 = 100+ 40+6 and 146 = 130+16).
- Compare and order numbers up to 1000.
- Compare and order numbers with one decimal place.
- Find 1, 10 or 100 more or less than a given number.
- Round numbers to at least 1000 to the nearest 10 or 100.
- Find the effect of multiplying a one- or two-digit number by 10 and 100, identify the value of the digits in the answer.
- Describe and extend number sequences involving counting on or back in different steps.
- Read Roman numerals from I to XII.
- Solve number problems and practical problems involving these ideas.

- Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).
- Select a mental strategy appropriate for the numbers involved in the calculation.
- Understand and use take away and difference for subtraction, deciding on the most efficient method for the numbers involved, irrespective of context.
- Recall/use addition/subtraction facts for 100 (multiples of 5 and 10).
- Derive and use addition and subtraction facts for 100.
- Derive and use addition and subtraction facts for multiples of 100 totalling 1000.
- Add and subtract numbers mentally, including:
- a three-digit number and ones.
 - a three-digit number and tens.
 - a three-digit number and hundreds.
- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
- Estimate the answer to a calculation and use inverse operations to check answers.
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

- Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).
- Understand that division is the inverse of multiplication and vice versa.
- Understand how multiplication and division statements can be represented using arrays.
- Understand division as sharing and grouping and use each appropriately.
- Recall and use multiplication and division facts for the
 3, 4 and 8 multiplication tables.
- Derive and use doubles of all numbers to 100 and corresponding halves.
- Derive and use doubles of all multiples of 50 to 500.
- 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.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Solve problems, including missing number problems, involving multiplication and division (and interpreting remainders), including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Number – fractions

- Show practically or pictorially that a fraction is one whole number divided by another (e.g. $\frac{3}{4}$ can be interpreted as $3 \div 4$).
- Understand that finding a fraction of an amount relates to division.
- Recognise that tenths arise from dividing objects into 10 equal parts and in dividing one-digit numbers or quantities by 10.
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

Geometry – properties of shapes

- Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.
- Recognise angles as a property of shape or a description of a turn.
- 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 horizontal and vertical lines and pairs of perpendicular and parallel lines.

Geometry - position and direction

Describe positions on a square grid labelled with letters and numbers.

- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
- Recognise and show, using diagrams, equivalent fractions with small denominators.
- Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].
- Compare and order unit fractions, and fractions with the same denominators (including on a number line).
- Count on and back in steps of $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$.

Solve problems that involve all of the above.

Measurement

- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
- Continue to estimate and measure temperature to the nearest degree (°C) using thermometers.
- Understand perimeter is a measure of distance around the boundary of a shape.
- Measure the perimeter of simple 2-D shapes.
- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
- Estimate/read time with increasing accuracy to the nearest minute.
- Record/compare time in terms of seconds, minutes, hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon, midnight.
- Know the number of seconds in a minute and the number of days in each month, year and leap year.
- Compare durations of events [for example to calculate the time taken by particular events or tasks].
- Continue to recognise and use the symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds/pence.
- Recognise that ten 10p coins equal £1 and that each coin is $\frac{1}{10}$ of £1.
- Add and subtract amounts of money to give change, using both £ and p in practical contexts.

Statistics

- Use sorting diagrams to compare and sort objects, numbers and common 2-D and 3-D shapes and everyday objects.
- Interpret and present data using bar charts, pictograms and tables. 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.