Key Stage One Maths Overview

Crick Primary School

The lists of objectives shown are the core objectives in Mathematics for each year group and will be taught at some stage over the academic year at an appropriate level.   Your child may be working at, below or above their year groups' objectives depending on their individual need.   For those children working below the Year 3 expectations we will use the Key Stage One or P Scales and if a child is working above the Year 6 objectives we will use the Year 7 or Year 8 objectives.

Mathematics is taught as a discrete subject but links are made across the curriculum where appropriate.

Mathematics long term Plan Key Stage One

Area	Year One	Year Two
To know and use number	- Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. - Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. - Given a number, identify one more and one less. - Read and write numbers from 1 to 20 in numerals and in words - Use the language of: equal to, more than, less than (fewer), most and least - Use place value and number facts to solve problems.	- Count in steps of 2, 3, 5 and 10 from 0 or 1 and in tens from any number, forward and backward - Compare and order numbers from 0 up to 100; use <, > and = signs. - Read and write numbers from 1 to 20 and then to at least 100 in numerals and in words. - Recognise the place value of each digit in a two-digit number (tens, ones).
To add and Subtract	- Solve one-step problems with addition and subtraction: - Using the addition (+), subtraction (-) and equals (=) signs. - Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: One-digit and two-digit numbers to 20, including zero. - A two-digit number and ones. - A two-digit number and tens. - Two two-digit numbers. - Adding three one-digit numbers. - Represent and use number bonds and related subtraction	- Using concrete objects and pictorial representations including those involving numbers, quantities and measures. - Applying their increasing knowledge of mental and written methods. - Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. - Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.

	Year One	Year Two
	facts within 20.	
Multiply and Divide	• Solve one-step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (.), division (÷) and equals (=) signs. • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. • Solve problems involving multiplication and division using mental methods. • Use known multiplication facts to check the accuracy of calculations. • Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables. • Recognise odd and even numbers. • Use multiplication and division facts to solve problems
Fractions (including decimals, percentages, ratio and proportion)	• Recognise, find and name a half as one of two equal parts of an object, shape or quantity. • Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	• Recognise, find, name and write fractions 1/2, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. • Recognise the equivalence of 2/4 and 1/2. • Write simple fractions for example, 1/2 of 6 = 3.
To understand the properties of shape	• Recognise and name common 2D and 3D shapes.	• Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. • Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. • Identify 2-D shapes on the surface of 3-D shapes. • Compare and sort common 2-D and 3-D shapes and everyday objects.

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	Year One	Year Two
To describe position, direction and movement	• Describe position, direction and movement, including whole, half, quarter and three-quarter turns.	• Order and arrange combinations of mathematical objects in patterns and sequences. • Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

To use measures	• Compare, describe and solve practical problems for:
	  ➢ lengths and heights.
	  ➢ mass/weight.
	  ➢ capacity and volume.
	  ➢ time.
	  ➢ Measure and begin to record:
	  ➢ lengths and heights.
	  ➢ mass/weight.
	  ➢ capacity and volume.
	  ➢ time. (hours, minutes, seconds).
	• Recognise and know the value of different denominations of coins and notes.
	• Sequence events in chronological order using language.
	• Recognise and use language relating to dates, including days of the week, weeks, months and years.
	• Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
		• Choose and use appropriate standard units to estimate and measure length/height (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
		• Compare and order lengths, mass, volume/capacity and record the results using >, < and =.
		• Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.
		• Find different combinations of coins that equal the same amounts of money.
		• Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
		• Compare and sequence intervals of time.
		• Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
		• Know the number of minutes in an hour and the number of hours in a day

	Year One	Year Two
Statistics		● Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. ● Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. ● Ask and answer questions about totalling and comparing categorical data