

National Curriculum Links – Mathematics

The following composition has been created using the statutory requirements set out in the ‘The National Curriculum in England: key stages 1 and 2 framework document’ (2013). This document encompasses the statutory requirements for ‘Mathematics’ for years 1 to 6. The chosen statutory requirements may be wholly or partially observed whilst with Stoke Bruerne Boat Company limited. You may have the opportunity to observe examples of the following statutory requirements to aid and encourage students learning, during your visit and/or post-visit with Stoke Bruerne Boat Company Limited.

Mathematics									
	Number						Geometry		
School Year	Number and Place Value	Addition, Subtraction, Multiplication and Division	Fractions	Ratio and proportion	algebra	Measurement	Properties of Shape	Position and Direction	Statistics
Year 1	<ul style="list-style-type: none"> Count, read and write numbers to 100; count in multiples of twos, fives and tens. Read and write numbers from 1 to 20 in numerals and words. 					<ul style="list-style-type: none"> Compare, describe and solve problems for lengths and heights. Compare, describe and solve problems for time. 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 	<ul style="list-style-type: none"> Recognise and name common 2-D and 3-D shapes. 	<ul style="list-style-type: none"> Describe position, direction and movement, including whole, half, quarter and three-quarter turns. 	

						hour and draw the hands on a clock face to show these times.			
Year 2	<ul style="list-style-type: none"> • Recognise the place value of each digit in a two-digit number. • Read and write numbers to at least 100 in numerals and in words. 		<ul style="list-style-type: none"> • Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. 			<ul style="list-style-type: none"> • Compare and order lengths, mass, volume/capacity and record results using $>$, $<$ and $=$. 	<ul style="list-style-type: none"> • 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 face. 	<ul style="list-style-type: none"> • 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 anticlockwise). 	
Year 3	<ul style="list-style-type: none"> • Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). • Identify, represent and estimate numbers using 		<ul style="list-style-type: none"> • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. 			<ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). • Compare durations of events [for 	<ul style="list-style-type: none"> • Recognise angles as a property of shape or a description of a turn. • Identify right angles, recognise that two right angles make a 		

	<p>different representations.</p> <ul style="list-style-type: none"> • Read and write numbers up to 1000 in numerals and in words. 					<p>example to calculate the time taken by particular events or tasks].</p>	<p>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.</p>		
Year 4	<ul style="list-style-type: none"> • Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). • Order and compare numbers beyond 1000. • Identify, represent and estimate numbers using different representations. 		<ul style="list-style-type: none"> • Recognise and show, using diagrams, families of common equivalent fractions. • Recognise and write decimal equivalents of any number of tenths or hundredths. • Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. 			<ul style="list-style-type: none"> • Convert between different units of measure [for example, kilometre to metre; hour to minute]. • Estimate, compare and calculate different measures, including money in pounds and pence. 	<ul style="list-style-type: none"> • Identify lines of symmetry in 2-D shapes presented in different orientations. 	<ul style="list-style-type: none"> • Describe movements between positions as translations of a given unit to the left/right and up/down. 	
Year 5	<ul style="list-style-type: none"> • Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. 		<ul style="list-style-type: none"> • Identify, name and write equivalent fractions of a given fraction, represented visually, including 			<ul style="list-style-type: none"> • Convert between different units of metric measure (for example, kilometre and metre; 			

			tenths and hundredths.			centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).			
Year 6	<ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. 		<ul style="list-style-type: none"> • Compare and order fractions, including fractions > 1. 			<ul style="list-style-type: none"> • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. • Convert between miles and kilometres. 	<ul style="list-style-type: none"> • Recognise, describe and build simple 3-D shapes, including making nets. • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. 		