



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold- Statutory Statements from NC;  
Italics- Non-statutory, but fundamental to ensure knowledge is secure)

	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>DECLARATIVE KNOWLEDGE:</b> Facts and formulae (Fluency) Relationships between facts	<b>MEASURE</b>								
	<b>Comparing &amp; Estimating</b>								
	Knows what is meant by empty and full.		Knows terms such as longer, shorter, heavier, lighter.	<i>Knows the correct measuring equipment for length, mass, and capacity.</i>	<b>Knows the standard units of measure for length, height, mass, temperature and capacity.</b>				
<b>PROCEDURAL KNOWLEDGE</b> Methods. Relationships between facts, procedures and missing facts.	Knows how to compare size weight etc using gestures and language eg bigger/little/smaller, high/low, tall, heavy.	knows how to make comparisons between objects relating to size, length, weight and capacity.	<b>Knows how to tackle problems involving prediction and discussion, comparisons of length, weight or capacity, paying attention to fairness and accuracy.</b>	<b>Knows how to compare, describe and solve practical problems for lengths and heights, mass, capacity and volume and time.</b>	<b>Knows how to compare and order units of measure using &lt; &gt; =</b>			<b>Knows how to use and approximate equivalences between metric and imperial units such as inches, pounds and pints.</b>	



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold- Statutory Statements from NC;  
Italics- Non-statutory, but fundamental to ensure knowledge is secure)

	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>DECLARATIVE KNOWLEDGE:</b>  <b>Facts and formulae (Fluency)</b>  <b>Relationships between facts</b>	<b>MEASURE</b>								
	<b>Measuring &amp; Calculating</b>								
				Knows the coins and notes by their value, size, and colour.	<i>Knows the value of coins and notes in order to compare amounts.</i>  <b>Knows the symbols for £ and p.</b>	<i>Knows the correct notation and strategies for calculating with money.</i> <b>Knows the term perimeter.</b>	<b>Knows the area is the measurement of the surface of a rectilinear figure.</b>	Knows that angles are measured using a protractor.  <b>Knows the three dimensions for finding the volume.</b>	<b>Knows that shapes with the same area can have different perimeters and vice versa.</b>
<b>PROCEDURAL KNOWLEDGE:</b>  <b>Methods .</b>  <b>Relationships between facts, procedures and missing facts.</b>				Knows how to measure and begin to record length, mass, capacity, volume in non-standard units then standard units.	Knows how to combine amounts to make a particular value.  Knows how to find different combinations of coins that equal the same amounts of	Knows how to measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)  Knows how to measure the perimeter of simple 2-D	Knows how to estimate, compare and calculate different measures, including money in pounds and pence  Knows how to calculate the	Knows how to calculate and compare areas of rectangles.  Knows how to use a protractor to draw angles and lines accurately.  Knows how to calculate the	Knows how to calculate the area of parallelograms and triangles.  Knows how and when to use formulae for area and volume of shapes.



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold-Statutory Statements from NC;

*Italics-Non-statutory, but fundamental to ensure knowledge is secure)*

					<p><b>money using notes and coins.</b></p> <p><i>Knows how to find change in the context of money.</i></p>	<p><b>shapes.</b></p> <p><i>Knows how to add/subtract amounts of money to give change using both £ and p in practical contexts.</i></p> <p><i>Knows how to measure accurately reading the marked divisions in the appropriate units.</i></p>	<p><b>perimeter as the measurement of the boundary of a rectilinear figure.</b></p>	<p><b>rectangles and related composite shapes, including using the relations of perimeter or area to find unknown lengths.</b></p> <p><i>Knows how to estimate volume [for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water].</i></p> <p><i>Knows how to use all four operations in problems involving time and money, including conversions.</i></p>	
--	--	--	--	--	--	--	---	--	--



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold-Statutory Statements from NC;  
Italics-Non-statutory, but fundamental to ensure knowledge is secure)

								<p><i>Knows how to solve missing measures questions such as these can be expressed algebraically.</i></p> <p><i>Knows how to calculate the area from scale drawings using given measurements.</i></p>	
--	--	--	--	--	--	--	--	---	--



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold- Statutory Statements from NC;  
Italics- Non-statutory, but fundamental to ensure knowledge is secure)

	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>DECLARATIVE KNOWLEDGE:</b>  <i>Facts and formulae (Fluency)</i>  <i>Relationships between facts</i>	<b>MEASURE</b>								
	<b>Telling the Time</b>								
	Knows that things may happen now or at another time	Knows the language to sequence events real and fictional using first, then, after.  Knows familiar patterns in daily routines.  Knows what is happening next	Knows that time passes and recognises routines.  Knows the date and month of their birthday.	<b>Knows and uses language relating to dates including days of the week and the months of the year.</b>  <b>Knows the sequence of events in chronological order using language.</b>	<b>Knows the number of minutes in an hour and the number of hours in a day.</b>	<b>Knows passing of time can be calculated as time durations.</b>  <b>Knows and uses vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight.</b>  <b>Knows the time in 12hr and 24hr representations.</b>  <b>Knows that analogue clocks can be represented in roman numerals.</b>			



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold- Statutory Statements from NC;  
Italics- Non-statutory, but fundamental to ensure knowledge is secure)

<p><b>PROCEDURAL KNOWLEDGE:</b></p> <p><b>Methods . Relationships between facts, procedures and missing facts.</b></p>		<p>Knows when key times of the day are eg lunchtime, hometime</p>		<p><b>Knows how to tell the time to an hour and half past.</b></p> <p><i>Knows how to draw the hands on a clock to show these times.</i></p>	<p><b>Knows how to read the time to the 5-minute intervals.</b></p> <p><i>Knows how to read quarter past and quarter to on a clock face.</i></p> <p><i>Knows how to draw the hands on a clock face to show quarter past and quarter to.</i></p> <p><i>Knows how to compare and sequence intervals of time.</i></p>	<p><b>Knows how to read the time to the nearest minute.</b></p> <p><i>Knows the number of seconds in a minute and the number of days in each month, year and leap year.</i></p>	<p><b>Knows how to read, write, and convert time between analogue and digital 12- and 24-hr clocks.</b></p> <p><i>Knows how to solve problems involving converting hours to minutes, minutes to seconds, years to months, week to days.</i></p>	
--	--	---	--	--	--	---	---	--



# CAPTAIN WEBB PRIMARY SCHOOL

## Maths Curriculum – Key Knowledge and Skills

(Bold-Statutory Statements from NC;  
Italics-Non-statutory, but fundamental to ensure knowledge is secure)

	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>DECLARATIVE KNOWLEDGE:</b>  <b>Facts and formulae (Fluency)</b>  <b>Relationships between facts</b>	<b>MEASURE</b>								
	<b>Converting</b>								
			Knows that money is used to buy items.				Knows that multiplication can be used to convert from larger to smaller units.  <i>Knows that perimeter can be expressed algebraically as <math>2(a + b)</math> where <math>a</math> and <math>b</math> are the dimensions in the same unit.</i>	Knows the common imperial measurements in use and begin to convert to metric measures.	Knows that approximately 5 miles = 8 kilometres.  Knows approximate conversions of imperial/metric units.
<b>PROCEDURAL KNOWLEDGE:</b>  <b>Methods. Relationships between facts, procedures and missing facts.</b>							Knows how to multiply and divide to convert between units of measure.	Knows how to use place value, multiplication, and division to convert between standard units.	Knows how to use, read, write and convert between standard units of length, mass and volume.  Knows how to calculate, estimate and compare volume







CAPTAIN WEBB PRIMARY SCHOOL  
Maths Curriculum – Key Knowledge and Skills  
(**Bold**-Statutory Statements from NC;  
*Italics*-Non-statutory, but fundamental to ensure knowledge is secure)