



St Clement Danes Primary School
Maths Progression of Skills and Knowledge

	KS1		KS2			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Using Measures	<p>Compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> - Lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) - mass/weight (heavy/light, heavier than/lighter than) - capacity and volume (full/empty, more than, less than, half, half full, quarter) - time (quicker, slower, earlier, later) 	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (g/kg); temperature; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</p> <p>Compare and order lengths, mass, volume/capacity and record the results using $<$, $>$ and $=$</p>	<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>	<p>Convert between different units of measure (for example, km to m; hour to minute)</p> <p>Estimate, compare and calculate different measures.</p>	<p>Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p>Use all four operations to solve problems involving measure (for example, lengths, mass, volume, money) using</p>	<p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</p> <p>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</p>



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	<p>Measure and begin to record the following:</p> <ul style="list-style-type: none">- Lengths and heights- Mass/weight- Capacity and volume- Time (hours, minutes, seconds)				<p>decimal notation, including scaling.</p>	<p>to three decimal places.</p> <p>Convert between miles and kilometres.</p>
Measurement: Money	<p>Recognise and know the value of different denominations of coins and notes</p>	<p>Recognise and use symbols for pounds and pence; combine amounts to make a particular value.</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Solve simple problems in a practical context involving addition and subtraction of money, of the same unit,</p>	<p>Add and subtract amounts of money to give change, using both pounds and pence in practical contexts.</p>	<p>Estimate, compare and calculate different measures, including money in pounds and pence.</p>	<p>Use all four operations to solve problems involving measure for example, money.</p>	



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Measurement: Time	<p>Sequence events in chronological order using language (for example, before, after, next, first, today, yesterday, tomorrow, morning, afternoon and evening)</p> <p>Recognise and use language relating to dates, including days of the week, weeks, months and years.</p> <p>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</p>	<p>including giving change.</p> <p>Compare and sequence intervals of time.</p> <p>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.</p> <p>Know the number of minute in an hour and the number of hours in a day.</p>	<p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24 hour clocks.</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>Know the number of seconds in a</p>	<p>Read, write and convert time between analogue and digital 12-hour and 24 hour clocks.</p> <p>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</p>	<p>Solve problems involving converting between units of time.</p>	<p>Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa.</p>
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			<p>minute and the number of days in each month, year and leap year.</p> <p>Compare durations of events (for example, to calculate the time taken by particular events or tasks).</p>			
Measurement: Perimeter, Area and Volume			<p>Measure the perimeter of simple 2D shapes.</p>	<p>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</p> <p>Find the area of rectilinear shapes by counting squares.</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p> <p>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres</p>	<p>Recognise that shapes with the same areas can have different perimeters and vice versa.</p> <p>Recognise when it is possible to use formulae for area and volume of shapes.</p> <p>Calculate the area of</p>



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					<p>and square metres and estimate the area of irregular shapes.</p> <p>Estimate volume and capacity.</p>	<p>parallelograms and triangles.</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units (for example mm³ and km³).</p>
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