Mathematics Programme of Study – Measurement

	Length, Weight, Volume, Temperature	Time	Money	Area, Perimeter
Year 1	compare, describe and solve practical problems for: • lengths and heights • mass or weight • *capacity/volume* measure and begin to record the following: • lengths and heights mass/weight • *capacity and volume*	compare, describe and solve practical problems for time (quicker, slower, earlier, later) measure and begin to record time (hours, minutes, seconds) sequence events in chronological order 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.	recognise and know the value of different denominations of coins and notes	
Year 2	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and =	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.	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,	

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	choose and use appropriate standard units to estimate and measure temperature (°C) to the nearest appropriate unit, using thermometers		including giving change	
Year 3	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	*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 and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and 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	add and subtract amounts of money to give change, using both £ and p in practical contexts	*measure the perimeter of simple 2-D shapes*
Year 4	Convert between different units of measure (e.g. kilometre to metre; hour to minute)	read, write and convert time between analogue and digital 12 and 24-hour clocks	estimate, compare and calculate different measures, including money in pounds and pence	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

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		solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.		find the area of rectilinear shapes by counting squares
Year 5	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) *understand and use equivalences between metric units and common imperial units such as inches, pounds and pints* *estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water)* solve problems involving converting between units of time use all four operations to solve problems involving measure (e.g. length, mass, volume) using decimal notation including scaling		use all four operations to solve problems involving money using decimal notation	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

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Year 6	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate use, read, write and convert between standard units, converting measurements of length, mass and volume 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* recognise when it is possible to use formulae for area and volume of shapes *calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm3) and cubic metres (m3), and extending to other units*	use, read, write and convert between standard units, converting measurements time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places		recognise that shapes with the same areas can have different perimeters and vice versa *calculate the area of parallelograms and triangles*