

SHCPS Progression in Measurement

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
TIME	Three and Four-Year-Olds Reception Early Learning Goals						
	Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...'	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	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.	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	read, write and convert time between analogue and digital 12 and 24-hour clocks		
		recognise and use language relating to dates, including days of the week, weeks, months and years sequence events in chronological order using language.	recognise and use language relating to dates, including days of the week, weeks, months and years compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks			

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			know the number of minutes in an hour and the number of hours in a day.	know the number of seconds in a minute and the number of days in each month, year and leap year			
					solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	solve problems involving converting between units of time	
MONEY		recognise and know the value of different denominations of coins and notes	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	add and subtract amounts of money to give change, using both £ and p in practical contexts solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	estimate, compare and calculate different measures , including money in pounds and pence	use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	solve problems involving the calculation and conversion of units of measure , using decimal notation up to three decimal places where appropriate

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PERIMETER, AREA & VOLUME				measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres know perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate the perimeter of rectangles and related composite shapes, including using the relations of perimeter or area to find unknown lengths. Missing measures questions such as these can be expressed algebraically, for example $4 + 2b = 20$ for a rectangle of sides 2 cm and b cm and perimeter of 20cm.	recognise that shapes with the same areas can have different perimeters and vice versa

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					find the area of rectilinear shapes by counting squares	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes calculate the area from scale drawings using given measurements. estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)]	calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [e.g. mm^3 and km^3] recognise when it is possible to use formulae for area and volume of shapes
ESTIMATING, COMPARING, MEASURING & CALCULATING (INCLUDING PROBLEM SOLVING)	Make comparisons between objects relating to size, length, weight and capacity. Compare length, weight and capacity.	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than,	compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) measure <i>using the appropriate tools and units</i>, compare (<i>including simple scaling by integers</i>) add and subtract <i>using mixed units</i>: lengths (m/cm/mm); mass (kg/g);	estimate, compare and calculate different measures, including money in pounds and pence	use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate <i>use a number line, to add and subtract positive and negative integers for measures</i>

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		half, half full, quarter] * time [e.g. quicker, slower, earlier, later] measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) <i>move from using and comparing different types of quantities and measures using non-standard units, including discrete (for example, counting) and continuous (for example, liquid) measurement, to using manageable common standard units using measuring tools, such as a ruler, weighing scales and containers.</i>	appropriate unit, using rulers, scales, thermometers and measuring vessels <i>compare measures including simple multiples such as 'half as high'; 'twice as wide'.</i>	volume/capacity (l/ml).			<i>such as temperature</i>
CONVERTING			know the number of minutes in an hour and the number of hours in a day.	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and	use, read, write and convert between standard units, converting measurements of length, mass, volume

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						millimetre; gram and kilogram; litre and millilitre)	and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
					read, write and convert time between analogue and digital 12 and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
						understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres