

Progression in Measures - 2014 National Curriculum

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> * lengths and heights (e.g. long/short, longer/shorter, tall/short, double/half) * mass of weight (e.g. heavy/light, heavier than, lighter than) * capacity/volume (full/empty, more than, less than, quarter) 8 time (quicker, slower, earlier, later) 					
<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>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 appropriate unit, using ruler, scales, thermometers and measuring vessels.</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 (e.g. kilometre to metre; hour to minute)</p>	<p>convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre) involving two decimal places.</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 three decimal places.</p>
	<p>compare and order lengths, mass, volume/capacity and record the results using $<$, $>$ and $=$</p>		<p>estimate, compare and calculate different measures ...</p>	<p>recognise and estimate volume (e.g. using 1cm^3 blocks to build cubes and cuboids) and capacity (e.g. using water).</p>	<p>calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3)</p>

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					and extending to other units, such as mm^3 and km^3 .
	read relevant scales to the nearest numbered unit.	read relevant scales to the nearest numbered unit including some negative scales.	read relevant scales to the nearest numbered unit including fractions and decimal scales.	understand and use basic equivalences between metric and common imperial units and express them in approximate terms.	convert between miles and kilometres.
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 and match different combinations of coins to equal the same amount of money; add and subtract money of the same unit, giving change.	add and subtract amounts of money to give change, using both £ and p in practical contexts.	estimate, compare and calculate different measures, including money in pounds and pence.		
	solve simple problems in a practical context involving addition and subtraction of money.			solve problems involving addition and subtraction of units of measure (e.g. length, mass, volume, money) using decimal notation.	solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate.
sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.	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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recognise and use language relating to dates, including days of the week, weeks, months and years.	begin to use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight.	use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight.	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.	
	know the number of minutes in an hour and hours in a day.	know the number of seconds in a minute and the number of days in each month, year and leap year.			
	estimate and read time with increasing accuracy to the nearest minute.	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock.			
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.	read, write and convert time between analogue and digital 12 and 24 hour clocks.	read, write and convert time between analogue and digital 12 and 24 hour clocks.	
		measure the perimeter of simple 2d shapes.	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	recognise that shapes with the same areas can have different perimeters and vice versa.
			find the area of rectilinear shapes by counting.	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	calculate the area of parallelograms and triangles.

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				irregular shapes.	
					recognise when it is necessary to use the formulae for area and volume of shapes.