



Maths Skills Progression: Measurement

Please note that this progression framework has been taken from NCETM to support understanding of progression of the different maths strands. Skills may appear more than once as some skills support more than one area of progression.



	Comparing and Estimating		Measuring and Calculating			
EYFS	Make comparisons between objects relating to size, length, weight and capacity Compare length, weight and capacity	Compare quantities using the language 'more than' and 'fewer than'				
Year 1	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, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	Sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)		Recognise and know the value of different denominations of coins and notes	
Year 2	Compare and order lengths, mass, volume/capacity and record the results using >, < and =	Compare and sequence intervals of time	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers		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	



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			and measuring vessels		involving addition and subtraction of money of the same unit, including giving change	
Year 3		Compare durations of events, for example to calculate the time taken by particular events or tasks	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Measure the perimeter of simple 2-D shapes	Add and subtract amounts of money to give change, using both £ and p in practical contexts	
Year 4	Estimate, compare and calculate different measures, including money in pounds and pence		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		Find the area of rectilinear shapes by counting squares
Year 5	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 (also included in measuring) estimate volume (e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)		Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	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 (cm ²) and square metres (m ²) and estimate the area of irregular shapes
Year 6	Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³),		Solve problems involving the calculation and conversion of units of measure,	Recognise that shapes with the same areas can have different		Calculate the area of parallelograms and triangles



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	and extending to other units such as mm ³ and km ³ .		using decimal notation up to three decimal places where appropriate	perimeters and vice versa		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
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	Telling the Time			Converting		
EYFS	Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'					
Year 1	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 use language relating to dates, including days of the week, weeks, months and years				
Year 2	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.	Know the number of minutes in an hour and the number of hours in a day		Know the number of minutes in an hour and the number of hours in a day.		
Year 3	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		
Year 4	Read, write and convert time between analogue and digital 12 and 24-hour clocks			Convert between different units of measure (e.g. kilometre to metre; hour to minute)	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days



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Year 5			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Solve problems involving converting between units of time	Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints
Year 6			Solve problems involving converting between units of time	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 to three decimal places	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	Convert between miles and kilometres