

Progression in Measurement:



COMPARING AND ESTIMATING									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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	compare and order lengths, mass, volume/capacity and record the results using >, < and = compare and sequence intervals of time	compare durations of events, for example	estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	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 (also included in measuring) estimate volume (e.g.	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 such as mm³ and km³.				
using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]		to calculate the time taken by particular events or tasks 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 MEASURING AN	D CALCULATING						
measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)	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 and measuring vessels	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/ml)	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				
		measure the perimeter of simple 2-D 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				
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 solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	add and subtract amounts of money to give change, using both £ and p in practical contexts							
			find the area of rectilinear shapes by counting squares	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	calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm) and cubic metres (m), and extending to other units [e.g. mm and km]. recognise when it is possible to use formulae for area and volume of shapes				

TELLING THE TIME									
tell the time to the hour and half past the	tell and write the time to five minutes,	tell and write the time from an analogue	read, write and convert time between						
hour and draw the hands on a clock face	including quarter past/to the hour and	clock, including using Roman numerals	analogue and digital 12 and 24-hour clocks						
to show these times.	draw the hands on a clock face to show	from I to XII, and 12-hour and 24-hour							
	these times.	clocks							
recognise and use language relating to	know the number of minutes in an hour	estimate and read							
dates, including days of the week, weeks,	and the number of hours in a day.	time with increasing accuracy to the							
months and years		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							
			solve problems involving converting from	solve problems involving converting					
			hours to minutes; minutes to seconds;	between units of time					
			years to months; weeks to days						
			RTING						
	know the number of minutes in an hour	know the number of seconds in a minute	convert between different units of	convert between different units of	use, read, write and convert between				
	and the number of hours in a day.	and the number of days in each month,	measure (e.g. kilometre to metre; hour to	metric measure (e.g. kilometre and metre;	standard units, converting measurements				
	(appears also in Telling the Time)	year and leap year	minute)	centimetre and metre; centimetre and	of length, mass, volume and time from a				
				millimetre; gram and kilogram; litre and	smaller unit of measure to a larger unit,				
				millilitre)	and vice versa, using decimal notation to				
					up to three decimal places				
			read, write and convert time between	solve problems involving converting	solve problems involving the calculation				
			analogue and digital 12 and 24-hour clocks	between units of time	and conversion of units of measure, using				
					decimal notation up to three decimal				
					places where appropriate				
			solve problems involving converting from	understand and use equivalences between	convert between miles and kilometres				
			hours to minutes; minutes to seconds;	metric units and common imperial units					
			years to months; weeks to days	such as inches, pounds and pints					