



Queen's Park C.E/U.R.C Primary School: Maths Progression Map

Measurement

Comparing and Estimating								
EYFS	Year I	Year 2	Year 3	Year 4	Year 5	Year 6		
DM: campare and describe: • lengths and heights [e.g. long/short, longer/shorter, tall/short] • mass/weight [e.g. heav.y/ light, heavier than, lighter than] • capacity and volume [e.g. full/empty] • time [e.g. quick/fast, slow].	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]	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 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 (appears also in Telling the Time)	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 (cm ²) and square metres (m ²) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using I cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ .		

	Meas	uring and Calcul	ating		
measure and begin to record the following: * Jengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) recognise and know the value of different denominations of coins and notes	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 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	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 maney to give change, using both £ and p in practical contexts	estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing) measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares	use all four operations to solve problems involving measure (e.g. length, mass, valume, maney) 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 (cm2) and square metres (m2) and estimate the area of irregular shapes	solve problems involving the calculation and conversion of un of measure, using decimal notation up to three decime places where appropriate (appears also in Converting) recognise that shapes with the same areas can have different perimeters and via versa calculate the area of parallelograms and triangles calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids usin standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to othe units [e.g. mm3 and km3]. 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 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	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.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and I2-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 (appears also in Converting) 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	
		Converting			
	has we the number of	<u>0</u>	and holison	annual baluar	was used with
	know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	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) read, write and convert time between analogue and digital 12 and 24- hour clocks (appears also in Converting) solve problems involving converting from hours to	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	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller un of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places solve problems involving the

		minutes; minutes to	between metric units	calculation and
		seconds; years to	and common	conversion of units
		months; weeks to	imperial units such	of measure, using
		days	as inches, pounds	decimal notation
		(appears also in	and pints	up to three decimal
		Telling the Time)		places where
				appropriate
				(appears also in
				Measuring and
				Calculating)
				.convert between
				miles and
				kilometres