



# Danson Primary School Maths Skills Progression: Measurement



EYFS/ KS1 Measurement			
	EYFS	Year 1	Year 2
<b>Comparing and estimating 1</b>	I can compare objects according to size I can compare sets without counting I can order objects according to length or height I can order sets without counting I can use everyday language to talk about size, weight, capacity(measures)	I can 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] and begin to record time (hours, minutes, seconds)	I can compare and order lengths, mass, volume/capacity and record the results using >, < and =
<b>Comparing and estimating 2</b>		I can sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	I can compare and sequence intervals of time
<b>Measuring and calculating</b>		I can measure and begin to record the following: * <b>lengths and heights</b> * <b>mass/weight</b> * <b>capacity and volume</b> * <b>time</b> (hours, minutes, seconds)	I can choose and use appropriate standard units to estimate and measure <b>length/height</b> in any direction (m/cm); <b>mass</b> (kg/g); <b>temperature</b> (°C); <b>capacity</b> (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
<b>Measuring and calculating shape</b>			
<b>Measuring and calculating money</b>		I can recognise and know the value of different denominations of <b>coins and notes</b>	I can 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  <b>solve simple problems</b> in a practical context involving addition and subtraction of money of the same unit, including giving change
<b>Telling the time</b>	I can use everyday language to talk about time, days of the week and months of the year. I can measure short periods of time in simple ways I can recognise and use language relating to dates, including days of the week, weeks, months and years	I can tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. I can know the number of minutes in an hour and the number of hours in a day. (appears also in Converting) I can tell the time to the hour and half past the hour and draw the hands on a clock face to show these times I can recognise and use language relating to dates, including days of the week, weeks, months and years I can measure and begin to record the following: time	I can 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 I can 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 Comparing and Estimating) I know the number of minutes in an hour and the number of hours in a day I can compare and sequence intervals of time
<b>Converting</b>			I can know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)



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KS2 Measurement				
	Year 3	Year 4	Year 5	Year 6
<b>Comparing and estimating 1</b>	I can compare durations of events, for example to calculate the time taken by particular events or tasks. I can 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)	I can estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	I can calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes (also included in measuring) I can Estimate volume (e.g. using 1 cm <sup>3</sup> blocks to build cubes and cuboids) and capacity (e.g. using water)	I can calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units such as mm <sup>3</sup> and km <sup>3</sup> .
<b>Measuring and calculating</b>	I can measure, compare, add and subtract: <b>lengths</b> (m/cm/mm); <b>mass</b> (kg/g); <b>volume/capacity</b> (l/ml)	I can estimate, compare and calculate <b>different measures</b> , including <b>money in pounds and pence</b> (appears also in Comparing)	I can use all four operations to solve problems involving measure (e.g. <b>length, mass, volume, money</b> ) using decimal notation including scaling.	I can solve problems involving the calculation and conversion of <b>units of measure</b> , using decimal notation up to three decimal places where appropriate (appears also in Converting)
<b>Calculating shape</b>	I can measure the <b>perimeter</b> of simple 2-D shapes I can measure and calculate the <b>perimeter</b> of a rectilinear figure (including squares) in centimetres and metres	I can find the area of rectilinear shapes by counting squares	I can measure and calculate the <b>perimeter</b> of composite rectilinear shapes in centimetres and metres I can calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes <i>I can recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) (copied from Multiplication and Division)</i>	I can recognise that shapes with the same areas can have different <b>perimeters</b> and vice versa I can calculate the area of parallelograms and triangles I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [e.g. mm <sup>3</sup> and km <sup>3</sup> ]. I can recognise when it is possible to use formulae for area and volume of shapes
<b>Calculating money</b>	I can add/subtract amounts of <b>money</b> to give change, using both £ and p in practical contexts			
<b>Telling the time</b>	I can read, write and convert time between analogue and digital 12 and 24-hour clocks including using Roman numerals from I to XII (appears also in Converting) I can estimate and read time with increasing accuracy to the nearest minute I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days ( also in Converting)	I can solve problems involving converting between units of time		
<b>Converting</b>	I can know the number of seconds in a minute and the number of days in each month, year and leap year I can record and compare time in terms of seconds, minutes and hours	I can convert between different units of measure (e.g. kilometre to metre; hour to minute) I can read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting) I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	I can convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) I can solve problems involving converting between units of time I can understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	I can 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 I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating) I can convert between miles and kilometres