Progression in Mathematics: Measurement

Concept	Nursery and EYFS	Year 1 and Year 2	Year 3 and Year 4	Year 5 and Year 6
Using Measures	measures short periods of time in simple ways Orders two or three items by length or height Orders two items by weight or capacity use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems	compare, describe and solve practical problems for lengths/heights long/short longer/shorter double/half mass/weight heavier/lighter heavier than/lighter than capacity and volume full/empty more than/less than half/half full quarter time quicker/slower earlier/late measure and begin to record the following: lengths and heights mass/weight capacity and volume time – hours minutes and seconds choose and use appropriate standard units to estimate and measure length/height in any direction m cm mass kg g temperature capacity l ml using rulers, scales, thermometers and measuring vessels compare and order lengths/mass/volume/ capacity and record the re sults using > < and =	measure , compare, add and subtract: lengths-m cm mm mass -kg g volume/capacity-l ml convert between different units of measure Km to m hour to minute estimate, compare and calculate different measures	convert between different units of metric measure Km-m cm-m cm-mm g-kg l-ml understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints use all 4 operations to solve problems involving measure in calculations, use decimal notation and scaling Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places 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 up to 3 decimal places convert between miles and kilometres

Money		recognise and know the value of different denominations of coins and notes recognise and use symbols for £ and p combine amounts to make a particular value find different combinations of coins to make the same amount of money solve simple money problems including + - and 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	use all 4 operations to solve problems involving measure
Perimeter, Area and Volume			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 cm and m calculate and compare the area (including squares) – using standard units centimetres squared square meters estimate the area of irregular shapes estimate volume e.g using blocks or water recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cuboids using standard units cubic cm cubic mm cubic km