Maths Objectives – Measurement

Key Stage	Objective	Child Speak Target
KS 1 Y1	Compare, describe and solve practical problems for lengths and heights [for example, long/short, longer/shorter, tall/short, double/half].	*I use words such as long/short, longer/shorter, tall/short, double/half to describe my maths work when I am measuring.*
KS 1 Y1	Compare, describe and solve practical problems for mass/weight [for example, heavy/light, heavier than, lighter than].	*When weighing, I use the words heavy/light, heavier than, lighter than to explain my work.*
KS 1 Y1	Compare, describe and solve practical problems for capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].	*When working with capacity, I use the words full/empty, more than, less than, half, half full and quarter to explain my work.*
KS 1 Y1	Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later].	*I can answer questions about time, such as Who is quicker? or What is earlier?*
KS 1 Y1	Measure and begin to record lengths and heights.	*I can measure the length or height of something and write down what measure.*
KS 1 Y1	Measure and begin to record mass/weight.	*I can measure how heavy an object is and write down what I find.*
KS 1 Y1	Measure and begin to record capacity and volume.	*I can measure the capacity of jugs of water and write down what I measure.*
KS 1 Y1	Measure and begin to record time (hours, minutes, seconds).	*I can measure how long something takes to happen - such as how long it takes me to run around the playground.*
KS 1 Y1	Recognise and know the value of different denominations of coins and notes.	*I know that coins have different values - such as 2p, 5p, 10p and 50p.*
KS 1 Y1	Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].	*I use special time words such as before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.*
KS 1 Y1	Recognise and use language relating to dates, including days of the week, weeks, months and years.	*I can tell you the days of the week and months of the year and I can talk about weeks and months and years and what they mean.*
KS 1 Y1	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 tell the time and draw hands on a clock for to the hour and half past the hour times.*
KS 1 Y2	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.	*I can choose, use and measure the correct unit to measure length or height in any direction (m/cm); weight (kg/g); temperature (°C); or capacity (litres/ml).*
KS 1 Y2	Compare and order lengths, mass, volume/capacity and record the results using symbols for greater than, less than and =.	*I can compare and order lengths, weight and capacity and then record the results using symbols for greater than, less than and equals.*
KS 1 Y2	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.	*I know and use the symbols for pounds (£) and pence (p) and can add together different amounts of money, such as 253p and £2.*
KS 1 Y2	Find different combinations of coins that equal the same amounts of money.	*I can find different combinations of coins that equal the same amounts of money.*
KS 1 Y2	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	*I have solved money problems such as how much change do I get from 50p if I buy an apple for 35p?*
KS 1 Y2	Compare and sequence intervals of time.	*I can put the time of events in order.*
KS 1 Y2	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 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.*
KS 1 Y2	Know the number of minutes in an hour and the number of hours in a day.	*I know there are 60 minutes in an hour and 24 hours in a day.*

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KS 2 Y3	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	*I can measure and compare in these units: lengths (m/cm/mm), weight (kg/g) and capacity (l/ml).*
KS 2 Y3	Measure the perimeter of simple 2-D shapes.	*I can measure the perimeter od a 2-D shape such as a square or triangle.*
KS 2 Y3	Add and subtract amounts of money to give change, using both £ and p in practical contexts.	*I can work on money problems, adding and subtracting amounts of money and working out how much change is left. I use both £ and p in my problems.*
KS 2 Y3	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	*I can tell and write the time from a clock with numbers or Roman numerals or using 12 and 24 hour clocks.*
KS 2 Y3	Estimate and read time with increasing accuracy to the nearest minute.	*I can tell the time accurately to the nearest minute.*
KS 2 Y3	Record and compare time in terms of seconds, minutes and hours.	*I can measure and record time passing in seconds, minutes and hours.*
KS 2 Y3	Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.	*I know and use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight in my maths work.*
KS 2 Y3	Know the number of seconds in a minute and the number of days in each month, year and leap year.	*I know the number of seconds in a minute and the number of days in each month, year and leap year.*
KS 2 Y3	Compare durations of events [for example to calculate the time taken by particular events or tasks].	*I can calculate how long an event or task took to complete.*
KS 2 Y4	Convert between different units of measure [for example, kilometre to metre; hour to minute].	*I can convert one unit of measurement to another, such as kilometre to metre, hour to minute and cm to mm.*
KS 2 Y4	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	*I can measure and calculate the perimeter of a rectangle (including a square).*
KS 2 Y4	Find the area of rectilinear shapes by counting squares.	*I can find the area of a rectangular shape by counting the number of squares the shape takes up.*
KS 2 Y4	Estimate, compare and calculate different measures, including money in pounds and pence.	*I can estimate and compare the measurements of a range of measures (such as cm, km, g, litres) and money.*
KS 2 Y4	Read, write and convert time between analogue and digital 12- and 24-hour clocks.	*I can read, write and convert time between clocks with hands (analogue clocks) and digital 12- and 24-hour clocks.*
KS 2 Y4	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	*I can convert hours to minutes, minutes to seconds, years to months and weeks to days.*
KS 2 Y5	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).	*I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).*
KS 2 Y5	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.	*I can change metric units to become imperial units such as inches, pounds and pints.*
KS 2 Y5	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	*I can calculate the perimeter of multi-shape shapes in centimetres and metres.*
KS 2 Y5	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.	*I can calculate the area of rectangles in square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.*
KS 2 Y5	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water].	*I can estimate volume [for example, using 1 cm3 blocks to build cuboids] and capacity [for example, using water].*
KS 2 Y5	Solve problems involving converting between units of time.	*I can convert between the units of time.*
KS 2 Y5	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	*I can solve more difficult problems which involve units of measurement, decimal numbers and scales.*

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KS 2 Y6	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.	*I solve problems about different units of measures with three decimal places.*
KS 2 Y6	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 convert measurements of length, weight, volume and time up to three decimal places in length (for example 0.345kg = 345g).*
KS 2 Y6	Convert between miles and kilometres.	*I can convert between miles and kilometres.*
KS 2 Y6	Recognise that shapes with the same areas can have different perimeters and vice versa.	*I know that even though shapes may have the same area, the perimeter may be different - or a shapes with the same perimeter may have a different areas.*
KS 2 Y6	Recognise when it is possible to use formulae for area and volume of shapes.	*I can use a formulae for area and volume of shapes.*
KS 2 Y6	Calculate the area of parallelograms and triangles.	*I can calculate the area of parallelograms and triangles.*
KS 2 Y6	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].	*I can work with the volume of cubes and cuboids using cubic centimetres (cm3) and cubic metres (m3), and other units too such as mm3 and km3.*
KS3	Use standard units of mass, length, time, money and other measures, including with decimal quantities.	