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| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | Measurement progressionComparing and Estimating |  |  |  |
| Compare quantities using language such as “more” and “fewer” Make comparisons between objects relating to size, length, weight and capacity Investigate measure using appropriate vocabulary Heavy/light/same as/ heavier/lighter/tall/short/ Long/longer/shorter/empty Full/nearly full/nearly empty | Compare length, weight and capacity To use prior vocabulary and supplement with Lightest/heaviest/ Tallest/shortest/ Half full/quickest/ Slowest To compare, describe and solve practical problems for length, heights. .weight,capacity and time | 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 tasksestimate 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 (Also shown in Telling the Time | estimate, compare and calculate different measures, including money in pounds and pence (Also shown 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 shown in Measuring)estimate volume (e.g. using 1 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 . |
|  |  | Measuring and Calculating |  |  |  |
|  | To begin to use non –standard units to measure static objects. To record findings during investigations. | measure and begin to record the following: \* lengths 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 vesselsrecognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular valuefind different combinations of coins that equal the same amounts of moneysolve 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 shapesadd 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 (Also shown in Comparing)measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metresfind the area of rectilinear shapes by counting squares | use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scalingmeasure and calculate the perimeter of composite rectilinear shapes in centimetres and metrescalculate 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 recognise and use square numbers and cube numbers, and the notation for squared ( 2 ) and cubed ( 3 ) (Multiplication and Division NC Objective) | solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (Also shown in Converting)recognise that shapes with the same areas can have different perimeters and vice versacalculate the area of parallelograms and trianglescalculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm 3 ) and cubic metres (m 3 ), and extending to other units [e.g. mm 3 and km 3 ].recognise when it is possible to use formulae for area and volume of shapes |
|  |  | Telling the Time |  |  |  |
| Understand position through words alone Begin to describe a sequence of events using words such as “first”, “then” | To sequence a familiar set of events both fictional and nonfictional To be introduced to and understand the o’clock time on an analogue clock. To be able to read and draw the hands on a clock face to show this times. | 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 timesknow the number of minutes in an hour and the number of hours in a day. (Objective also shown in Converting) | tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocksestimate 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 (Also shown in Comparing and Estimating) | read, write and convert time between analogue and digital 12 and 24-hour clocks (Also shown in Converting)solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (Also shown in Converting) | solve problems involving converting between units of time |  |
|  |  | Converting |  |  |  |
|  |  |  | know the number of minutes in an hour and the number of hours in a day. (Objective also shown 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 (Objective also shown in in Telling the Time)solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (Also shown in Telling the Time) | 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 timeunderstand and use equivalences between metric units and common imperial units such as inches, pounds and pint | 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 placessolve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (Also shown in Measuring and Calculating)convert between miles and kilometres |
|  |  | Converting |  |  |  |
|  |  |  | know the number of minutes in an hour and the number of hours in a day. (Objective also shown 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 (Objective also shown in in Telling the Time)solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (Also shown in Telling the Time) | 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 timeunderstand and use equivalences between metric units and common imperial units such as inches, pounds and pints | 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 placessolve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (Also shown in Measuring and Calculating)convert between miles and kilometres |