## Measurement

## Progression of Skills:

- Comparing and Estimating
- Measuring and Calculating
- Telling the Time
- Converting

Comparing and Estimating

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Compare, describe and solve practical problems for: <br> - Lengths and height (e.g. long/short, longer/shorter, tall/short, double/half) <br> - mass/weight (e.g. heavy/light, heavier than, lighter than) <br> - $\quad$ Capacity and volume (e.g. full/empty, more than, less than, half, half full, quarter) <br> - Time (e.g. quicker, slower, earlier, later) | Compare and order lengths, mass, <br> volume/capacity and record the results using <, > and $=$. | Build on year 2 to ensure mastery. | Estimate, <br> compare and calculate different measures including money in pounds and pence. | Calculate and compare the area of squares and rectangles including using standard units, square centimeters (cm2) and square metres (m2) and estimate the area of irregular shapes. <br> Estimating volume (e.g. using 1 cm3 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 (cm3) and cubic metres (m3) and extending to other units such as mm3 and km3. |
| Sequence events in chronological order using language (e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening). | Compare and sequence intervals of time. | Compare durations of events, for example to calculate the time taken by particular events or tasks. | Build on year 3 to ensure mastery. $\square$ |  | $\xrightarrow[\nu]{-}$ |
|  |  | 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. | Build on year 3 to ensure mastery. $\square$ |  | $-1$ |

## Measuring and Calculating

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Measuring and Calculating

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Recognise and know the value of different denominations of coins and notes. | Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. | Add and subtract amounts of money to give change, using both £ and $p$ in practical contexts. | Build on year 3 to ensure mastery. |  | $\lambda$ |
|  | Find different combinations of coins that equal the same amounts of money. |  |  |  |  |
|  | Solve simple problems in a practical context involving addition of subtraction of money of the same unit, including giving change. |  |  |  |  |
|  |  |  | Find the area of rectilinear | Calculate and compare the area | Calculate the area of parallelograms and triangles. |
|  |  |  | counting squares. | rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes. | 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 e.g. mm 3 and km 3 . |
|  |  |  |  |  | Recognise when it is possible to use formulae for area and volume of shapes. |

## Telling the Time

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tell the time to the hour and half pas $\dagger$ the hour and draw the hands on a clock face to show these times. | 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. | Tell and write the time from an analogue clock, including Roman numerals from I to XII and 12 -hour and 24 -hour clocks. | Read, write and convert time between analogue and digital 12 and 24 -hour clocks. | Build on year 4 to ensure mastery. $\qquad$ $\qquad$ | $\lambda$ |
| Recognise and use language relating to dates, including days of the week, weeks, months and years. | Know the number of minutes in an hour and the number of hours in a day. | 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. | Build on year 3 to ensure mastery. |  |  |
|  |  |  | 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. | Build on year 5 to ensure mastery |

## Converting

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Know the number of minutes in an hour and the number of hours in a day. | 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). | Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; lire and millilitre). | Use, read and 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 three decimal places. |
|  |  |  | Read, write and convert time between analogue and digital 12 and 24 -hour clocks. | Solve problems involving converting between units of time. | Solve problems involving the calculation of conversion of units of measure, using decimal notation up to three decimal places where appropriate. |
|  |  |  | Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. | Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints. | Convert between miles and kilometres. |

