Notes:

- Measurement

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Comparing and Estimating | compare, describe and solve practical problems for: <br> * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] <br> * capacity and volume [e.g. <br> full/empty, more than, less than, half, half full, quarter] <br> * time [e.g. quicker, slower, earlier, later] | compare and order lengths, mass, volume/capacity and record the results using >, < and $=$ |  | estimate, 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 centimetres ( cm 2 ) and square metres (m 2 ) and estimate the area of irregular shapes (also included in measuring) <br> 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 . |
|  | 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 |  |  |  |
|  |  |  | 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) |  |  |  |
| Measuring and Calculating | measure and begin to record the following: <br> * lengths and heights <br> * mass/weight * capacity and volume <br> * time (hours, minutes, seconds) | choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, | measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity ( $1 / \mathrm{ml}$ ) | estimate, compare and calculate different measures, including money in pounds and pence | use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling. | solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate |


|  |  | scales, thermometers and measuring vessels |  |  |  |  |
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|  |  |  | measure the perimeter of simple 2-D 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 centimetres and metres | recognise that shapes with the same areas can have different perimeters and vice vers |
| Measuring and Calculating | 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 <br> find different combinations of coins that equal the same amounts of money <br> solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts |  |  |  |
|  |  |  |  | find the area of rectilinear shapes by counting squares | 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 <br> recognise and use square numbers and cube numbers, and the notation for squared ( 2 ) and cubed (3) | calculate the area of parallelograms and triangles <br> calculate, 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 ]. <br> recognise when it is possible to use formulae for area and volume of shapes |
| Telling the Time | tell the time to the hour and half past 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 using Roman numerals from I to XII, and 12-hour and 24hour clocks | read, write and convert time between analogue and digital 12 and 24 -hour clocks |  |  |
|  | 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 |  |  |  |

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|  |  | compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight |  |  |  |
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|  |  |  | 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 |  |
| Converting | 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. <br> 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; litre and millilitre) | 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 |
|  |  |  | 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 and 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 |

