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| **Comparing and Estimating** | | | | | |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| compare, describe and solve practical problems for:  **lengths and heights**  long/short, longer/shorter,  tall/short, double/half]  **mass/weight**  heavy/light,  heavier than, lighter than  **capacity and volume**  full/empty,  more than, less than,  half, half full, quarter  **time**  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 (also included in measuring) | calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2 ) and square metres (m2 ) and estimate the area of irregular shapes (also included in measuring)  estimate 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 |  |  |  |
|  |  | 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) |  |  |  |

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| **Measuring and Calculating** | | | | | |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| measure and begin to record the following:  **lengths and heights**  **mass/weight**  **capacity and volume**  **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** (°C); **capacity**  (litres/ml) to the nearest  appropriate unit, using rulers,  scales, thermometers and  measuring vessels | measure, compare, add  and subtract: **lengths**  (m/cm/mm); **mass**  (kg/g); **volume/capacity**  (l/ml) | estimate, compare and calculate **different measures,**  including **money in pounds and pence** (appears also in  Comparing) | 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  (appears also in Converting) |
|  |  | 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 versa |
| 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 * find different combinations of coins that equal the same amounts of money * **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 | add and subtract amounts of **money** to give change, using both £ and p in practical contexts (Consolidation from Year 3) |  |  |
|  |  |  | find the area of rectilinear shapes by counting squares | calculate and compare the area of squares and rectangles including using standard units,square centimetres (cm2 ) and square metres (m2 ) and estimate the area of irregular shapes  *recognise and use square numbers and cube numbers, and the notation for squared ( 2) and cubed (3)*  (copied from Multiplication and Division) | * calculate the area of parallelograms and triangles * 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.mm3 and km3   recognise when it is possible to use formulae for area and volume of shapes |

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| **Telling the Time** | | | | | |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| 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 24-hour  clocks | read, write and convert  time between analogue  and digital 12 and 24-hour  clocks (appears also in Converting) | read, write and convert  time between analogue  and digital 12 and 24-hour  clocks (appears also in Converting)  (Consolidation from Year 3) |  |
| 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.  (appears also in Converting) | 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 Comparing  and Estimating) | 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 Comparing  and Estimating)  (Consolidation from Year 3) |  |  |
|  |  |  | solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days  (appears also in Converting) | solve problems involving converting between units of time |  |

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| **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.  (appears also 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) | 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  (appears also in Telling the  TIme) | 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  (appears also in Measuring  and Calculating) |
|  |  |  | solve problems involving  converting from hours to  minutes; minutes to  seconds; years to months;  weeks to days  (appears also in Telling the  Time) | understand and use  equivalences between  metric units and common  imperial units such as  inches, pounds and pints | convert between miles  and kilometres |