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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 orderlengths, mass,volume/capacity andrecord 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 andevening] | 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 appropriatestandard units to estimate and measure **length/height** in any direction (m/cm); **mass** (kg/g);**temperature** (°C); **capacity**(litres/ml) to the nearestappropriate unit, using rulers,scales, thermometers andmeasuring vessels | measure, compare, addand 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 inComparing) | use all four operations tosolve problems involvingmeasure (e.g. **length,****mass, volume, money**)using decimal notationincluding scaling. | solve problems involvingthe calculation andconversion of **units of****measure**, using decimalnotation up to threedecimal places whereappropriate(appears also in Converting) |
|  |  | measure the **perimeter**of simple 2-D shapes | measure and calculate the**perimeter** of a rectilinear figure (including squares) incentimetres andmetres | measure and calculate the**perimeter** of compositerectilinear shapes incentimetres and metres | recognise that shapeswith the same areas canhave 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 hourand half past the hour anddraw the hands on a clockface to show these times. | tell and write the time tofive minutes, includingquarter past/to the hourand draw the hands on aclock face to show thesetimes. | tell and write the timefrom an analogue clock,including using Romannumerals from I to XII, and12-hour and 24-hourclocks | read, write and converttime between analogueand digital 12 and 24-hourclocks (appears also in Converting) | read, write and converttime between analogueand digital 12 and 24-hourclocks (appears also in Converting)(Consolidation from Year 3) |  |
| recognise and uselanguage relating to dates,including days of theweek, weeks, months andyears | know the number ofminutes in an hour andthe number of hours in aday.(appears also in Converting) | estimate and readtime with increasingaccuracy to the nearestminute; record andcompare time in terms ofseconds, minutes, hoursand o’clock; usevocabulary such asa.m./p.m., morning,afternoon, noon andmidnight(appears also in Comparingand Estimating) | estimate and readtime with increasingaccuracy to the nearestminute; record andcompare time in terms ofseconds, minutes, hoursand o’clock; usevocabulary such asa.m./p.m., morning,afternoon, noon andmidnight(appears also in Comparingand 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 ofhours in a day.(appears also in Telling the Time) | know the number ofseconds in a minute and thenumber of days in eachmonth, year and leap year | convert between differentunits of measure (e.g.kilometre to metre; hourto minute) | convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre andmillilitre) | use, read, write andconvert between standardunits, convertingmeasurements of length,mass, volume and timefrom a smaller unit ofmeasure to a larger unit,and vice versa, usingdecimal notation to up tothree decimal places |
|  |  |  | read, write and converttime between analogueand digital 12 and 24-hourclocks(appears also in Telling theTIme) | solve problems involvingconverting between unitsof time | solve problems involvingthe calculation andconversion of units ofmeasure, using decimalnotation up to threedecimal places whereappropriate(appears also in Measuringand Calculating) |
|  |  |  | solve problems involvingconverting from hours tominutes; minutes toseconds; years to months;weeks to days(appears also in Telling theTime) | understand and useequivalences betweenmetric units and commonimperial units such asinches, pounds and pints | convert between milesand kilometres |