



Year 3 measurement

Prior Knowledge

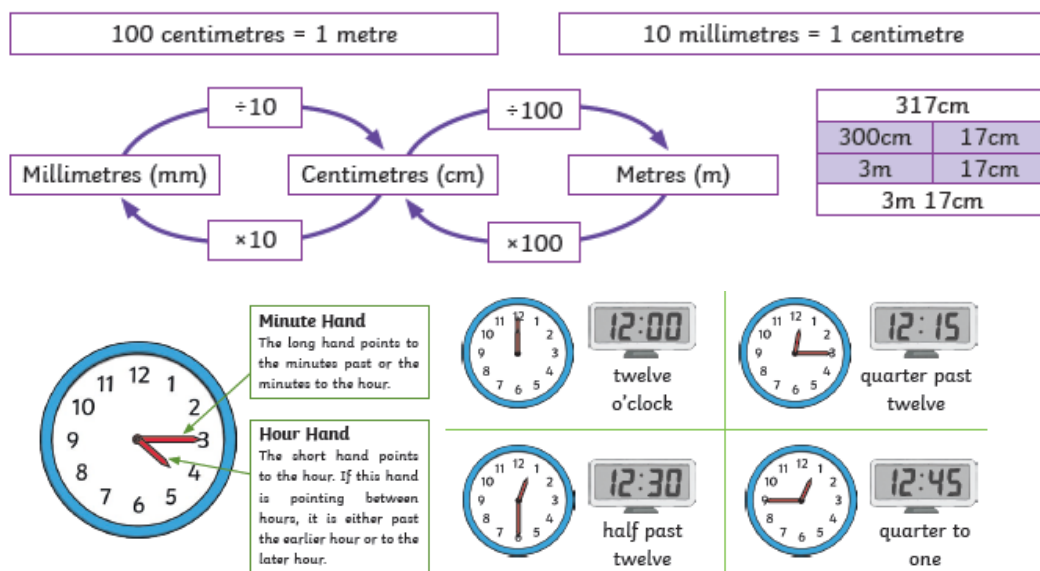
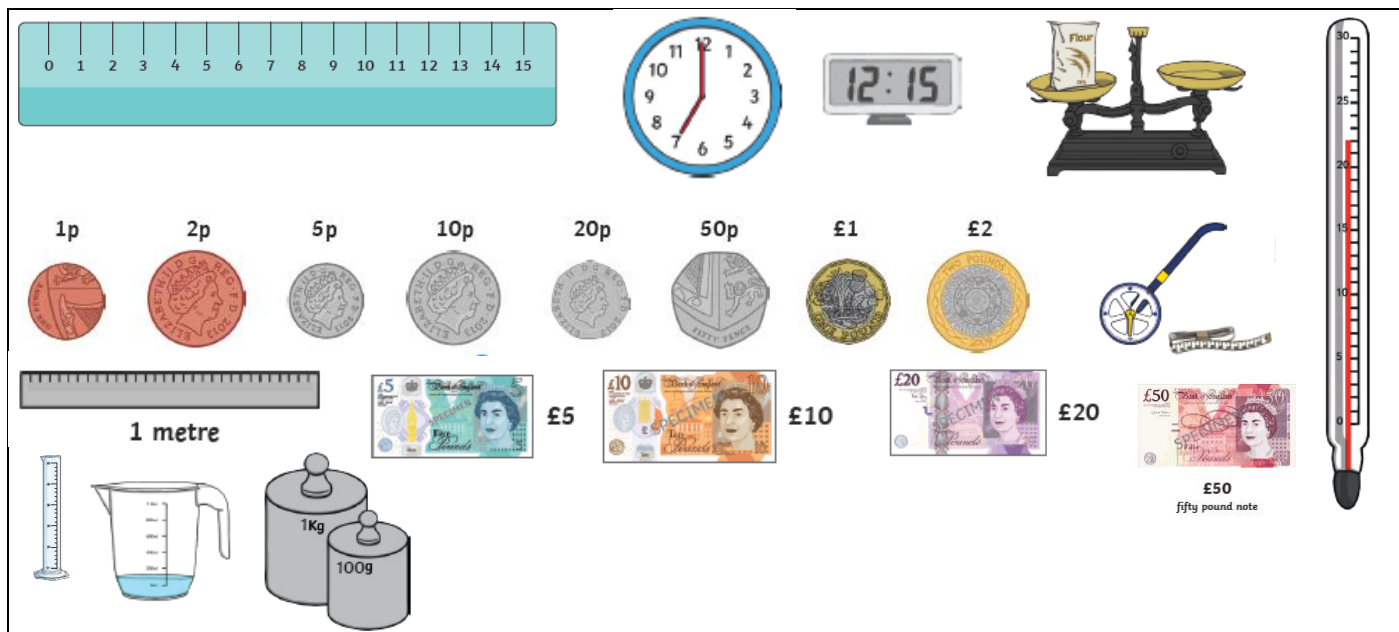
- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels (Y1/2)
- Compare and order lengths, mass, volume/capacity and record the results using >, < and = (Y2)
- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value (Y2)
- Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (Y2)
- 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 (Y2)
- Know the number of minutes in an hour and the number of hours in a day (Y2)

measurement		Working Towards	Within	Expected	Above
	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)				
	Measure the perimeter of simple 2-D shapes				
	Add and subtract amounts of money to give change, using both £ and p in practical contexts				
	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks				
	Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight				
	Know the number of seconds in a minute and the number of days in each month, year and leap year				
	Compare durations of events				
Highlights: _____					



Glossary

vocabulary	word class	definition
length	noun	the measurement or extent of something from end to end; the greater of two or the greatest of three dimensions of an object
height	noun	the measurement of someone or something from head to foot or from base to top
mass	noun	(in general use) weight
weight	noun	a body's relative mass or the quantity of matter contained by it; the heaviness of a person or thing
capacity	noun	the maximum amount that something can contain
volume	noun	the amount of space that a substance or object occupies, or that is enclosed within a container
time	noun	a point of time as measured in hours and minutes past midnight or noon
day	noun	each of the twenty-four-hour periods, reckoned from one midnight to the next, into which a week, month, or year is divided, and corresponding to a rotation of the earth on its axis
week	noun	a period of seven days
month	noun	each of the twelve named periods into which a year is divided
year	noun	the period of 365 days starting from the first of January
clock	noun	a mechanical or electrical device for measuring time
temperature	noun	the degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch
pound	noun	a unit of weight equal to 16 oz. / the basic monetary unit of the UK, equal to 100 pence
pence	noun	plural form of penny.
perimeter	noun	the continuous line forming the boundary of a closed geometrical figure
analogue	adjective	showing the time by means of hands or a pointer rather than displayed digits
o'clock	adverb	used to specify the hour when telling the time (abbreviation of 'of the clock')
noon	noun	twelve o'clock in the day; midday
midnight	noun	twelve o'clock at night
leap year	noun	a year, occurring once every four years, which has 366 days including 29 February as an intercalary day



January - 31 days
February - 28 days
(29 on a leap year)
March - 31 days
April - 30 days
May - 31 days
June - 30 days
July - 31 days
August - 31 days
September - 30 days
October - 31 days
November - 30 days
December - 31 days

There are 24 hours
in a day.





Future Learning

Year 4

- Convert between different units of measure
- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
- Find the area of rectilinear shapes by counting squares
- Estimate, compare and calculate different measures, including money in pounds and pence
- Read, write and convert time between analogue and digital 12 and 24-hour clocks
- Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days

Year 6

- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 2 decimal places where appropriate
- 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 3 decimal places
- Convert between miles and kilometres
- Recognise that shapes with the same areas can have different perimeters and vice versa
- Recognise when it is possible to use formulae for area and volume of shapes
- Calculate the area of parallelograms and triangles
- 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