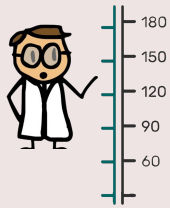
Measure

White Rose Maths



Reception

Autumn
- I can use language related to time
- I can order and sequence familiar events
- I can compare and order objects according to length, height and weight using correct mathematical vocabulary
- II can measure short periods of time in simple ways

Summer
- I can compare the size and height of objects
- I can extend my understanding of capacity from full and empty using other terms such as half-full, nearly full or empty etc
- I can sort objects according to the same rule

Year 1

Spring
- I compare, describe and solve practical problems for: lengths and heights and mass/weight
- I compare, describe and solve practical problems for: capacity and volume
- I measure and begin to record the following: mass/weight.
- I measure and begin to record the following: length and heights
- I can measure and begin to record the following: capacity and volume

Summer
- II can tell the time to the hour and half past the hour and draw the hands on the clock face to show these times
- I can sequence events in chronological order using language such as before, after, next, first, today, yesterday, tomorrow, evening, afternoon
- I recognise and use language relating to dates, including days of the week, weeks, months and years
- I compare, describe and solve practical problems for: time I recognise and know the value of different denominations of coins and notes

Year 2

Autumn
- I recognise and use symbols for pounds (£) and pence (p); combine amounts to make particular values
- I solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- I find different combinations of coins that equal the same amounts of money
- I solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Spring
- I compare and order lengths and record the results using >, < and =
- I choose and use appropriate standard units to estimate and measure: length/height in any direction (m/cm); mass (kg/g) to the nearest appropriate unit, using rulers and scales

Summer
- I compare and order mass, and record the results using >, < and = I compare and order volume/capacity and record the results using >, < and =
- I choose and use appropriate standard units to estimate and measure: length/height in any direction (m/cm); mass (kg/g) to the nearest appropriate unit, using rulers and scales
- I choose and use appropriate standard units to estimate and measure: temperature (C); capacity (1ml) to the nearest appropriate unit, using thermometers and measuring vessels
- I tell and write the time to quarter past/to the hour and draw the hands on a clock face to show these times
- I 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
- I compare and sequence intervals of time

Year 3

Autumn
- I add and subtract amounts of money to give change, using both £ and p in practical contexts.

Spring
- I measure, compare, add and subtract: lengths (m/cm/mm)
- I measure the perimeter of simple 2D shapes.
- I add and subtract measures (length, mass and volume) with up to 3 digits, using formal written methods of columnar addition and subtraction

Summer
- I estimate and read time with increasing accuracy to the nearest minute; Tell and write the time from an analogue clock, including using Roman numerals from I to XII
- I read 12-hour and 24-hour clocks
- I record and compare time in terms of seconds, minutes, hours
- I use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight
- I know the numbers of seconds in a minute and the number of days in each month, year and leap year
- I compare durations of events, for example to calculate time taken by particular events or tasks
- I measure, compare, add and subtract: mass (kg/g) and volume/ capacity (l/ml)

Year 4

Autumn
- I convert between different units of measure (e.g. km to m; hr to min)
- I measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m

Spring
- I find the area of rectilinear shapes by counting squares

Summer
- I read, write and convert time between analogue and digital 12- and 24-hour clocks.
- Estimate, compare and calculate different measures, including money in pounds and pence

Year 5

Autumn
- I measure and calculate the perimeter of composite rectilinear shapes in cm and m
- I calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

Summer
- I estimate volume (e.g. using 1 cm3 blocks to build cuboids, including cubes) and capacity (e.g. using water)
- I convert between different units of metric measure (e.g. km/m; cm/m; cm/mm; g/kg; l/ml
- I solve problems involving converting between units of time
- I understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

Year 6

Spring
- I convert between miles and km
- I 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 three decimal places
- I solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate
- I recognise that shapes with the same areas can have different perimeters and vice versa
- I calculate the area of parallelograms and triangles
- I recognise when it is possible to use formulae for area and volume of shapes