

## Topics

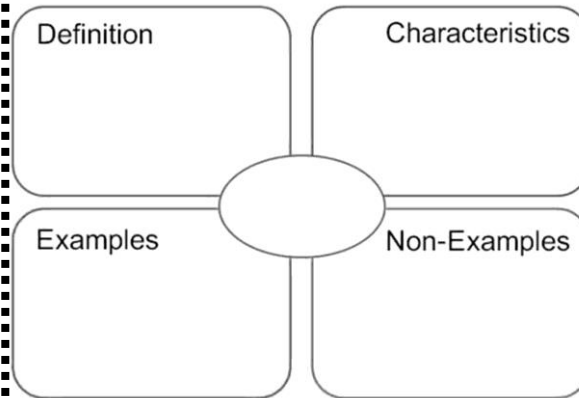
- Time
- Timetables
- Converting between standard units of measures
- Compound units of measure
- Speed
- Pressure
- Density

## Key Vocabulary

Time	The basic unit of time is the second. There are also minutes, hours, days, weeks, months and years
Unit	A quantity used as a standard of measurement
Convert	To change from one unit to another such as from inches to millimetres, or litres to gallons, etc.
Speed	How fast something is moving
Distance	Length. A measurement of how far through space
Density	A measure of how much matter is in a certain volume
Mass	A measure of how much matter is in an object
Volume	The amount of 3-dimensional space something takes up
Pressure	The force per unit area
Force	Force is push or pull

## What do I need to be able to do?

- Convert between units of measure
- Use the formulas for speed, density and pressure



# MEASURES

Spring Term

Measures

## Career Links

Being able to confidently work with shape is a great skill to have and has lots of links with a number of careers such as:

- Architecture
- Landscaping
- Engineering
- Construction
- Carpenter

### Time

**Minute** 1 minute = 60 seconds  
**Hour** 1 hour = 60 minutes  
**Day** 1 day = 24 hours  
**Week** 1 week = 7 days  
**Year** 1 year = 12 months = 52 weeks = 365 days

### Converting Length

1000m = 1km  
 100cm = 1m  
 10mm = 1cm

$\frac{1}{2}m = 0.5m = 50cm$   
 $\frac{3}{4}m = 0.75m = 75cm$   
 $\frac{1}{4}m = 0.25m = 25cm$   
 $\frac{1}{10}m = 0.01m = 10cm$

millimetres (mm)   centimetres (cm)   metres (m)   kilometres (km)

Conversion factors:  $\times 10$ ,  $\times 100$ ,  $\times 1000$ ,  $\div 10$ ,  $\div 100$ ,  $\div 1000$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

### Converting Capacity

1000ml = 1l  
 $\frac{1}{10}l = 0.1l = 100ml$   
 $\frac{1}{4}l = 0.25l = 250ml$   
 $\frac{1}{2}l = 0.5l = 500ml$   
 $\frac{3}{4}l = 0.75l = 750ml$   
 $\frac{1}{100}l = 0.01l = 10ml$

millilitre (ml)   litres (l)

Conversion factors:  $\times 1000$ ,  $\div 1000$

### Converting Mass

1 tonne = 1000kg  
 1000g = 1kg  
 $\frac{1}{10}kg = 0.1kg = 100g$   
 $\frac{1}{4}kg = 0.25kg = 250g$   
 $\frac{1}{2}kg = 0.5kg = 500g$   
 $\frac{3}{4}kg = 0.75kg = 750g$

grams (g)   kilograms (kg)   tonnes (t)

Conversion factors:  $\times 1000$ ,  $\div 1000$

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

