÷ 60

hours

minutes

@whisto_maths

What do I need to be able to do?

By the end of this unit you should be able to:

- Solve speed, distance, time questions
- Use distance time graphs
- Solve density, mass, volume problems
- Solve flow problems
- Use flow graphs
- Interpret rates of change and their units

<u>Keywords</u>

Convert: change

Mass: a measure of how much matter is in an object. Commonly measured by weight.

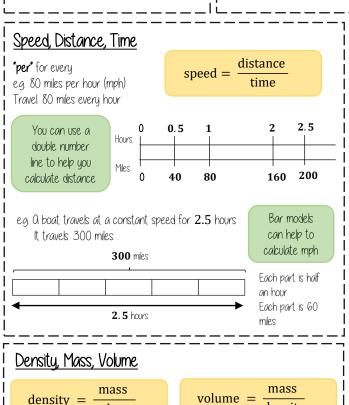
Origin: the coordinate (0, 0)

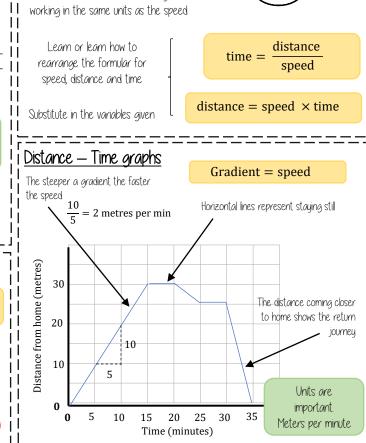
Volume: the amount of 3D space a shape takes up

Substitute: putting numbers where letters are — replacing numbers into a formula

Speed, Distance, Time

Before calculations — make sure you are





Flow problems & graphs

This will fill at a constant rate, then as the space decreases it will speed up and the neck of the bottle fill at a faster constant speed

 $mass = volume \times density$

Orea of cross

section

The cylinder will fill at a constant speed

volume

volume of prism

Units are important Ensure any volume calculations are the same unit as the rate of flow

density

Depth

