

## Topics

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

- Exchange rates
- Conversion graphs
- Real life graphs

Key Terms:
- Journey
- Distance
- Horizontal
- Vertical
- Axis
- Conversion
- Starting point
- Gradient
- Constant
- Speed
- Represents
- Be able to find the midpoint of a line
- Be able to plot a straight line from a table of vales
- Be able to find the equations of a line from a graph
- Be able to recognise parallel lines


The area under a speed-time graph represents the distance travelled. Likewise, the area under a velocity-time graph represents the displacement of the moving object. If the velocity is always positive, then the displacement will be the same as the distance.

Conversion graph: A graph which converts between two variables.
Distance-time graph: A graph that shows a journey and the relationship between the distance reached in a given time.
Real - life graph: This is a graph that represents a situation that we would see in real life.

Summer Term

Graphs 2

## Career Links

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

- Analysts - Economists - Economists researchers - Finance - Marketing



## 



The speed of an object can be calculated from the gradient of the graph.
E.g. calculate the speed at which the object travelled between 9am and I lam.

$$
\begin{aligned}
\text { Speed } & =30 \div 2 \\
& =15 \mathrm{~km} / \mathrm{h}
\end{aligned}
$$

$$
=15 \mathrm{~km} / \mathrm{hr}
$$



A = steady speed,
$B=$ no movement, C = steady speed back to start

Drawing a conversion graph

> You can plot known conversions on a graph to help you to convert
> other unknown amounts.

Current exchange rate

## $£ 1=€ 1.29$

$£ 2=€ 2.58$
$€ 10=€ 12.90$


## Using a conversion graph



Conversion graphs can be used to convert between any 2 units which have a linear relationship.
Here, you can use the graph to convert between inches and centimetres

