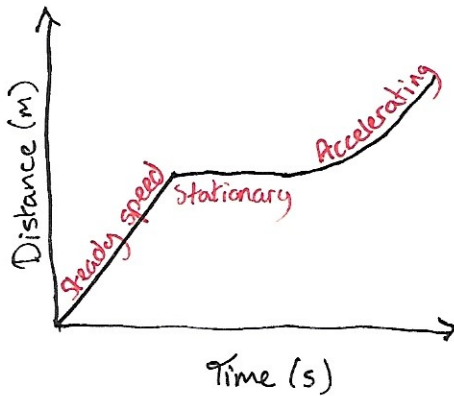


Motion

The speed of an object tells you how fast or slow it is moving. You can find the average speed of an object using:

$$\text{average speed} = \frac{\text{Distance}}{\text{time}}$$

Distance time graphs



The gradient is ~~example~~ equal to the speed.

Relative motion

If you overtake a car on a motorway it appears to slowly pass you even though you're travelling very fast because of your relative motion.

If objects are moving in the same direction you find the

$$\text{Relative speed} = \text{fastest speed} - \text{Slowest speed}$$

If objects are moving in opposite direction,

$$\text{Relative speed} = \text{fastest speed} + \text{slower speed}.$$