



# Chapter 2

## Accelerated Motion

2.1.1 Define and use distance, displacement, speed, velocity and acceleration

### 2.1 The meaning of acceleration

**Acceleration** is the rate of change of velocity; the unit is

### 2.2 Calculating acceleration

To calculate acceleration you need to know:

- Initial velocity, **u**
- Final velocity, **v**
- Time taken for increase or decrease in velocity, **t**

### 2.3 Units of acceleration

$$a = (v - u) / t$$

OR

$$a = \Delta v / \Delta t$$

Units of a:  $\text{ms}^{-2}$

Acceleration is always given in the standard SI unit of

2.1.1 Define and use distance, displacement, speed, velocity and acceleration

## Quick check!

1. A car accelerates from a standing start and reaches a velocity of  $18 \text{ ms}^{-1}$  after 6.0 s.



# Chapter 3 Accelerated Motion Quia

**L Manion**

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