

## Moving things

### Speed

To measure how fast something is travelling, you need to measure the distance it travels and the time taken. Units for **speed** are **km/h** or **m/s** or **mph**. The unit for speed depends on the units you have used to measure the distance and the time.

Speed is calculated using this formula:

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

The **mean (average) speed** is the total distance travelled divided by the total time taken. Actual speeds during a journey can be faster or slower than the mean speed.

A car travelling at 50 km/h overtakes one travelling at 30 km/h. The **relative speed** of the faster car compared to the slower car is 20 km/h.

### Distance–time graphs

A journey can be shown on a **distance–time graph**. This graph shows Kieron's journey to school. The steeper the line on the graph, the faster the object or person is moving.



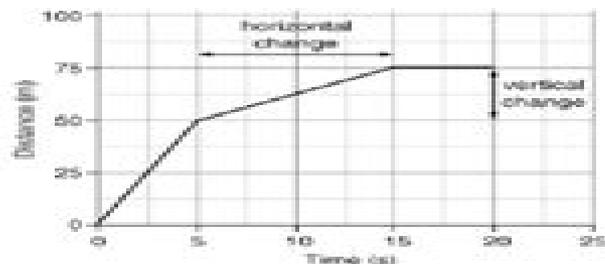
### Gradients

The **gradient** of a line on a graph is a measure of how steep the line is. On a distance-time graph, the gradient of a line gives the speed that the object is moving.

### Example

Calculate the speed of the object between 5 and 15 seconds.

$$\begin{aligned} \text{gradient} &= \frac{\text{vertical change (distance moved)}}{\text{horizontal change (time taken)}} \\ &= \frac{(75 \text{ m} - 50 \text{ m})}{(15 \text{ s} - 5 \text{ s})} \\ &= \frac{25 \text{ m}}{10 \text{ s}} \\ &= 2.5 \text{ m/s} \end{aligned}$$



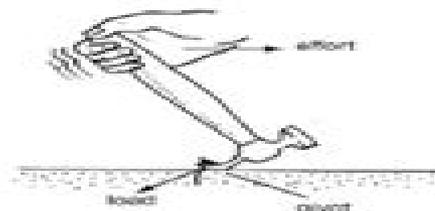
### Levers and moments

Forces can be used to turn objects around **pivots**. A pivot is also known as a **fulcrum**.

**Levers** can be **force multipliers**, when they increase the force that is put in (the **effort**). They can be **distance multipliers** if they make the **load** move further than the effort. The amount the force or distance is multiplied depends on the distances between the load and the pivot, and the effort and the pivot.

A turning force is called a **moment**. Moments are measured in **newton metres (N m)**.

$$\text{moment (in N m)} = \text{force (in N)} \times \text{perpendicular distance from the pivot (m)}$$



The hammer is acting as a force multiplier.

# Exploring Science 9i Summary Sheets

**Lingjun Ying**



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