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

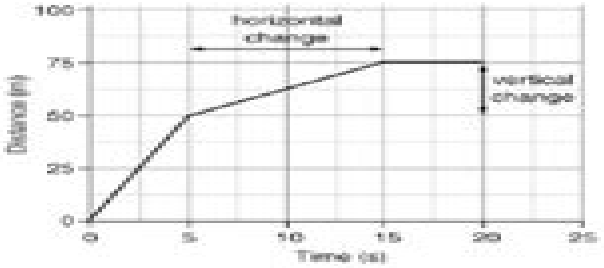
Calculate the speed of the object between 5 and 15 seconds.

$$\text{gradient} = \frac{\text{vertical change (distance moved)}}{\text{horizontal change (time taken)}}$$

$$= \frac{(75\,\text{m} - 50\,\text{m})}{(15\,\text{s} - 5\,\text{s})}$$

$$= \frac{25\,\text{m}}{10\,\text{s}}$$

$$= 2.5\,\text{m/s}$$

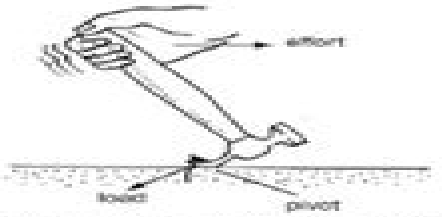


Levers and moments

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**).



The hammer is acting as a force multiplier.

moment (in N m) = force (in N) × perpendicular distance from the pivot (m).

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Julia Schneider

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