Keyword Meaning Speed a measure of how fast an object is moving. Motion The state in which one object's distance from another is changing. The overall rate of speed at which an object moves; calculated by dividing the total distance an object travels by the total time Force A push or a pull exerted on an object	y Fa
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Force A push or a pull exerted on an object trav	travell Or a ce can be The co camer
Balanced forces Equal force acting on an object in opposite directions	A jo objeA jo distThe moveThe how
When a force causes an object to move through a distance work is done. Unit is Joule (J). One Joule of work is done when a force of 1 Newton causes a displacement	
Lever A simple machine consisting of a pivot, effort and load. Reduces the amount of force needed to move a load	
Load The overall force that is exerted, usually by a mass or object, on a surface. Moment A turning effect of a force.	
Moment A turning effect of a force.	
Pivot A point around which something can rotate or turn.	1,
Effort Force used to move a load over a distance	//

acts

- work out an object's speed you need to ow the distance it has travelled and e time taken.
- eed cameras are used to find out if a ptorist is travelling faster than the speed it for the road.
- e camera takes two photos of the nicle. The two photos can be taken: ertain time apart so the distance led in that time can be measured ertain distance apart so the time taken e measured.

omputer connected to the speed ra can then divide the value of 'distance led' by the value of 'time taken' to ate the speed of the car.

- ourney describes the motion of an iect over time.
- ourney can be represented using a tance-time graph.
- e graph will show when an object is oving and when it is stationary.
- e graph can also be used to calculate w fast the object is travelling.

Numeracy

Calculating speed: Speed = distance/time Distance = speed x time Time = distance/speed

The most commonly used unit for speed in Physics is metres per second (m/s). You can convert kilometres into metres by

Relative motion:

multiplying it by 1000.

Same direction:

Relative speed = fastest speed – slowest speed

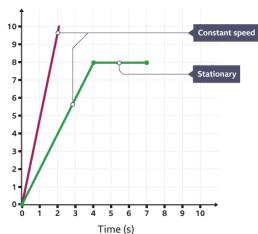
Opposite directions:

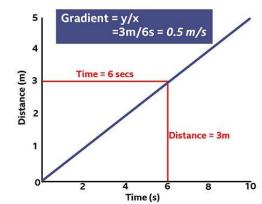
Relative speed = speed of object 1 + speed of object 2

The gradient of the line on a distance-time graph is equal to the speed:

Gradient = change in y value/change in x value

Work done = force x distance





This means that finding the gradient is the same as using the formula: Speed = Distance

Time