

Module P4 Explaining Motion

Speed

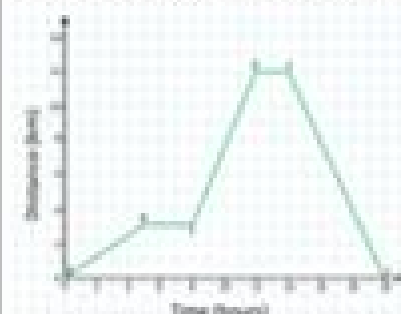
What formula is used to calculate speed?

A dog walks 511 metres in 11 minutes. What is its speed in metres/second?

How long in seconds will it take to walk half a kilometre at a speed of 50 metres per second?

Describe what is meant by (a) average speed and (b) instantaneous speed.

Describe graph below in detail (i.e. between X and Y hours the object travels 2 metres)



A-B

B-C

C-D

D-E

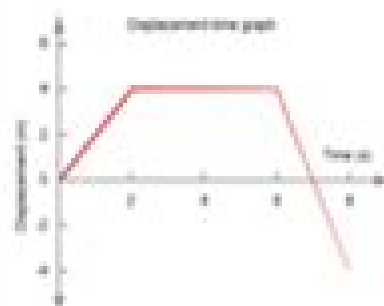
E-F

Calculate the speed between points A and B.

Displacement

What is the difference between speed and displacement?

Describe the graph below in detail

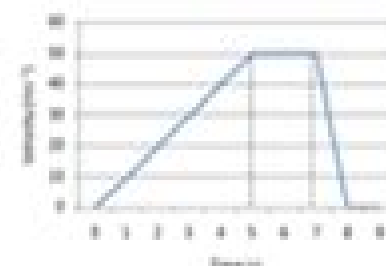


Sketch a displacement-time graph that shows an object that is (a) stationary for 5 seconds then (b) accelerating for 5 seconds then (c) decelerating for 5 seconds before (d) coming to a stop. The total distance travelled should be 20 metres.

Velocity

What is the difference between speed and velocity?

On the graph below when is the object (a) stationary (b) accelerating (c) decelerating and (d) travelling at 50m/s?



Sketch what you would see on a velocity-time graph if the acceleration was (a) increasing and (b) decreasing.

Sketch what you would see on a velocity-time graph if an object was accelerating in the opposite direction.

What is the formula used to calculate acceleration?

Using the graph at the top of this section calculate the acceleration between 2 and 3 seconds.

Forces

When do forces occur?

Describe what is meant by the term 'interaction pair'.

What 2 things do arrows show in relation to forces?

Draw arrows to show the interaction pair in the following diagrams.



In the above diagram that shows the table and the book state (a) which object exerts the weight and (b) the object on which it acts.

The force opposing the weight of the book can be described as the 'reaction force'. What is meant by this term?

What 2 things can you say about the reaction force exerted on the book in relation to the weight?

State 2 interaction pairs that exist on a moving car.

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M Mark



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