What's the Connection? Forces and Motion





What's This?



A graphical representation of a journey showing how long it took and how far it was. The speed can also be calculated using the gradient of the lines.



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crash



buckle

vehicle



tiredness



Why?

If I am travelling in a car and apply the brakes, why does the car still travel after I have seen the danger?

Stopping distance is the distance a vehicle travels in order to stop. It is calculated by adding the thinking distance to the braking distance.

What are these?

The thinking distance is the distance travelled by the vehicle once the hazard has been spotted and the driver reacts. The braking distance is the distance travelled by the vehicle once the driver has applied the brakes.



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What's Being Described?

An object travelling at a constant speed, or remaining stationary has all the forces balanced and the resultant force is zero.

Newton's first law – balanced forces

I am a skydiver and have reached a point where my weight is balanced by resistive forces – how fast am I travelling?

Terminal velocity

What are the Words?



