

Everyday motion

Calculate the missing values.
There are 1609m in 1 mile.

Object in motion	Typical speed (m/s)	Typical speed (mph)
Person walking		2.2
Person running	5	
Cycling		15
Car	22	
Train	56	
Sound		738
Strong wind		30

Calculate the speed of a cyclist on a bike with wheels of diameter 60cm, if the time between each rotation is 0.3 seconds.
Circumference = $\pi \times$ diameter

How can you calculate the speed of a sprinter running 100m. What measurements would you need to take and how?

How about calculating the speed of a car using a speed camera?

P6 - Global Challenges - Combined Physics Revision Sheet

Equations you need to be aware of (learn these in bold, plain type are on the data sheet)

$$\text{Speed} = \text{distance} \div \text{time}$$

$$\text{Acceleration} = \text{change in speed} \div \text{time}$$

$$(\text{final velocity})^2 - (\text{initial velocity})^2 = 2 \times \text{acceleration} \times \text{distance}$$

$$\text{Force} = \text{mass} \times \text{acceleration}$$

Braking distance and stopping distance

Braking distance doesn't depend on the driver of a vehicle. What three things do affect the braking distance of a vehicle?

- _____
- _____
- _____

Stopping distance is the total distance a car travels from the moment a driver sees a problem until the car is stationary.

$$\text{Stopping distance} = \text{thinking distance} + \text{braking distance}$$

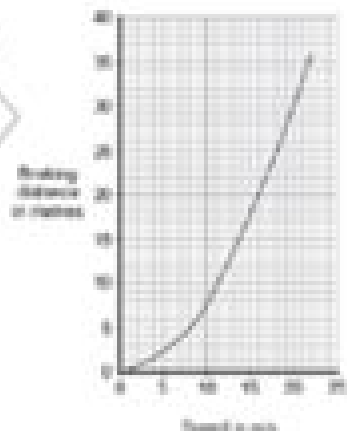
A car driver makes an emergency stop. The chart shows the 'thinking distance' and the 'braking distance' needed to stop the car.



Calculate the total stopping distance of the car.

The graph shows how the braking distance of the car driven on a dry road changes with the car's speed.

Draw a new line on the graph to show how the braking distance of the car on an icy road changes with speed.



Forces in Collisions



A seat belt is a safety feature in a car. In a collision, wearing a seatbelt reduces the risk of injury. Use the words or phrases from the box to complete the following sentences.

decreases stays the same increases

In a collision, the seat belt stretches. The time it takes for the person held by the seat belt to lose momentum _____ compared to a person not wearing a seat belt. The force on the person's body _____ and so reduces the risk of injury.

A car being driven at 9.0 m/s collides with the back of a stationary lorry. The car slows down and stops in 0.20 seconds. The total mass of the car and driver is 1200kg.

Calculate the average force exerted by the lorry on the car during the collision.

Reaction time and thinking distance

What factors affect reaction time?

- _____
- _____
- _____
- _____
- _____
- _____
- _____

Reaction time is important at the start of a running race. The table shows the time taken by a student to run different distances.

Distance in metres	Time in seconds
100	12.74
200	25.43
300	37.66

Reaction time is more important in a 100m race than in an 800m race. Explain why.

- _____
- _____

Using a hand-held mobile phone while driving is illegal in the UK. The table shows the effect of using a mobile phone on thinking distance.

	Thinking distance
Not using a mobile phone	16m
Using a mobile phone with a hands-free kit	22m
Using a hand-held mobile phone	27m

Explain why driving while using a hand-held mobile phone is more dangerous than using a hands-free kit. Use data from the table.

Ocr Gateway P6 Revision

Pauline Anning

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Ocr Gateway P6 Revision:

This book delves into Ocr Gateway P6 Revision. Ocr Gateway P6 Revision is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ocr Gateway P6 Revision, encompassing both the fundamentals and more intricate discussions.

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