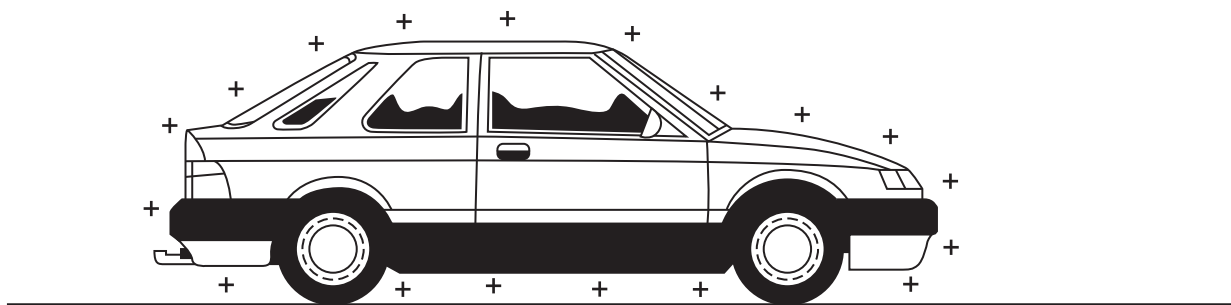


- 4 A car becomes electrically charged as it travels along a road.



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- (a) (i) Explain how a moving car becomes electrically charged.

(2)

- (ii) Why does this charge remain on the car after it has stopped moving?

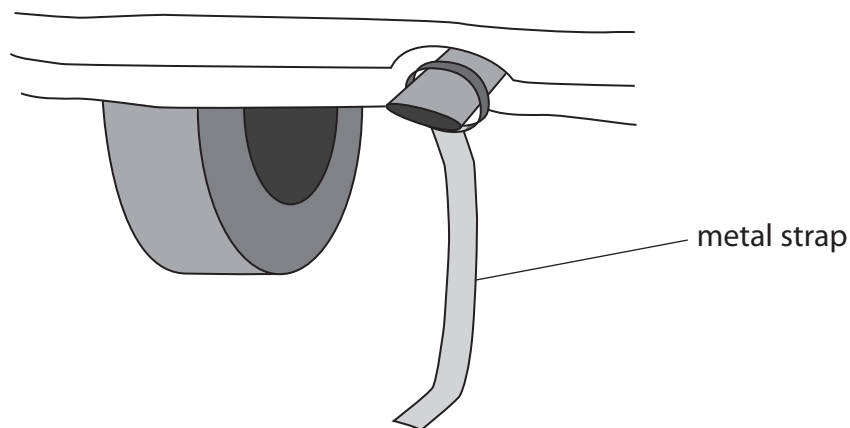
(1)



(b) Some people prefer to prevent their car from becoming charged.

They do this by fixing a metal strap underneath the car.

The metal strap rubs on the ground as the car moves.



(i) Suggest why it is safer to have no electrical charge on a car.

(1)

(ii) Explain how the metal strap prevents a car from becoming charged.

(2)

(Total for Question 4 = 6 marks)

