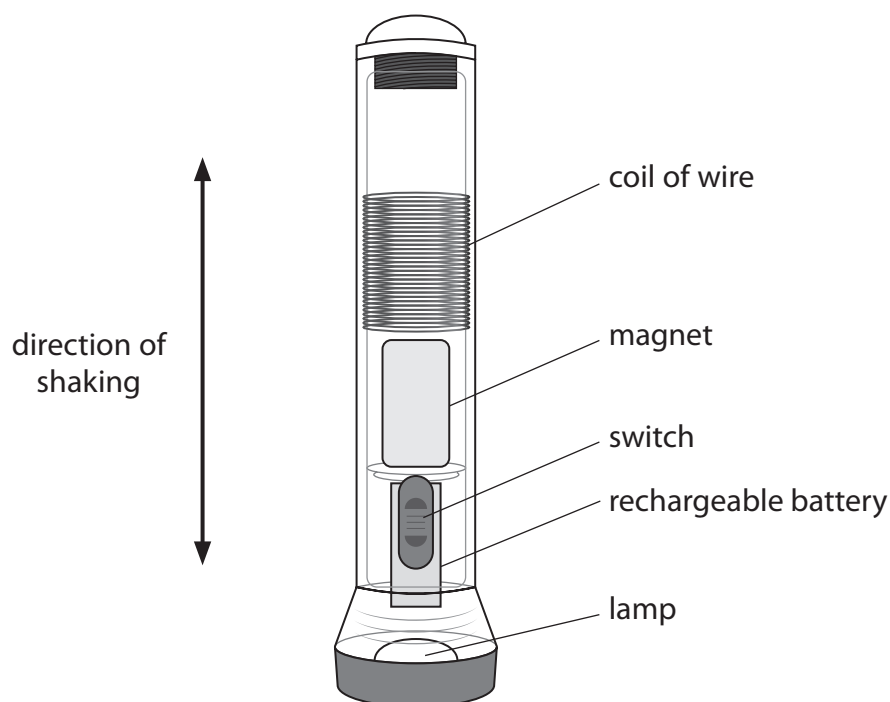


3 The diagram shows a torch that uses a rechargeable battery.

The battery is recharged by shaking the torch up and down.



(Source: adapted from © www.shutterstock.com/1328720216)

(a) Shaking the torch causes the magnet to move up and down inside the coil of wire.

Explain why the movement of the magnet causes a current in the coil.

(3)

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(b) Using a stronger magnet could increase the current in the coil of wire.

State two other factors that could increase the current in the coil.

(2)

1

2

(Total for Question 3 = 5 marks)

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