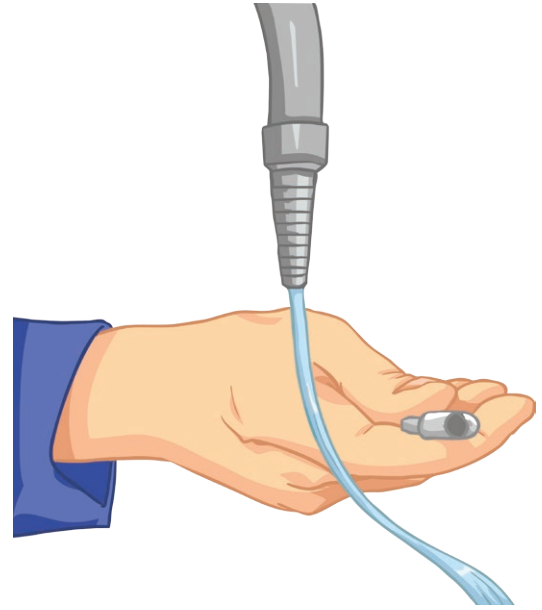


Electricity and Magnetism Test Yourself 3

Why?

Explain why the comb alters the path of the water.



Match and Draw

Match the definitions and units of measurement.

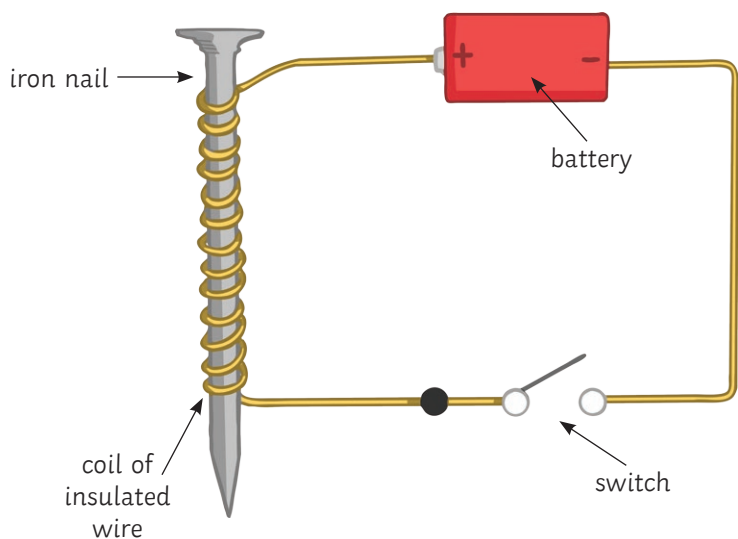
potential difference	the flow of electrons around a circuit	amps (A)
current	the energy that the cell provides.	volts (V)

Electromagnets

The image shows a simple electromagnet. State two ways to increase the strength of the electromagnet.

1.

2.



State three uses of electromagnet

1.

2.

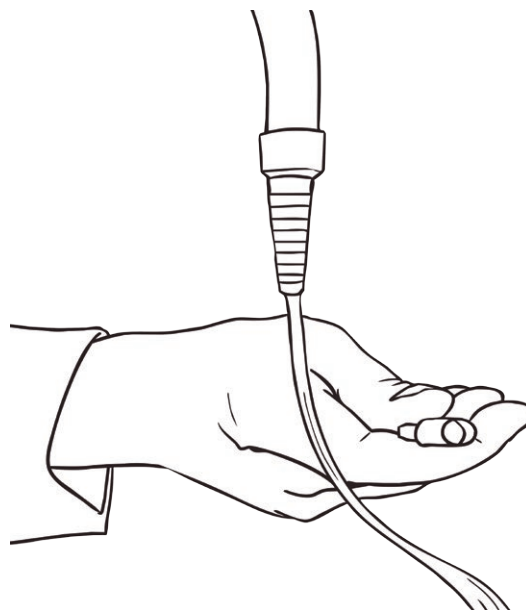
3.

Answers

Why?

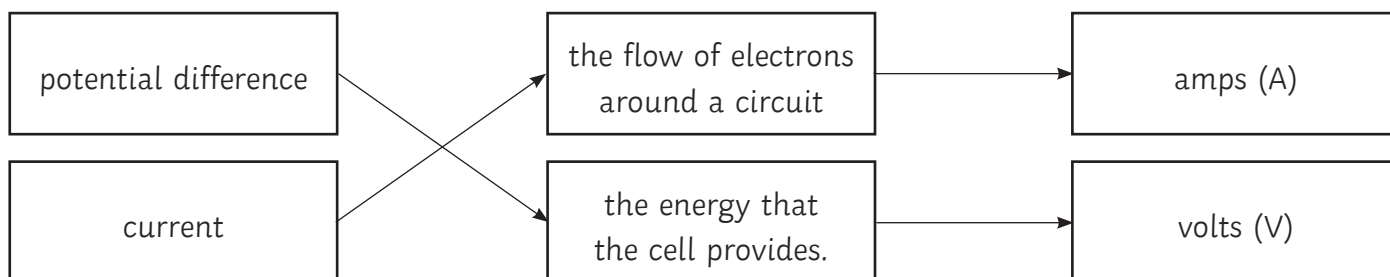
Explain why the comb alters the path of the water.

Static electricity. The comb becomes negatively charged when run through a person's hair. When put near the water, the comb repels the electrons, creating a positive charge in the side of the water nearest the comb. The attraction between the positively charged water and negatively charged comb causes a bend.



Match and Draw

Match the definitions and units of measurement.



Electromagnets

The image shows a simple electromagnet. State two ways to increase the strength of the electromagnet.

1. **Increase number of coils**
2. **Increase the current**

State three uses of electromagnet

1. **Move cars in a scrapyard**
2. **Doorbells**
3. **Hospital doors**

