

When an electric current flows through a conductor, it can heat up, can produce light, can generate a magnetic force or can cause chemical changes in substances.

What effect electric current produces when it passes through each of these objects?

A table screen		An oven	
A mobile battery		A blender	
An electrical scooter		A doorbell	

### Match

Direct current •

- The electrons move in alternating directions

- Toy with batteries

Alternating current •

- The electrons always move in the same direction

- T.V.

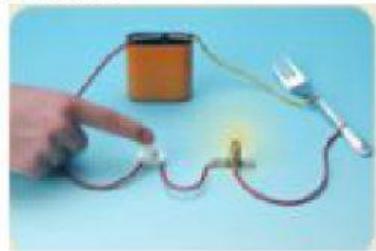
**Look at the picture of an electric circuit and answer the questions**

a. Is the fork an insulator or conductor

\_\_\_\_\_

b. What would happen if you replaced the fork with a rubber?

\_\_\_\_\_



**Classify the materials into electrical conductors and insulators.**

plastic      gold      copper      glass      aluminium      iron      wood

conductors	insulators

**Complete the sentences.**

attract      repel      electric current      circuit      magnetic      insulators

- a. Objects with opposite charges, \_\_\_\_\_ and objects with like charges \_\_\_\_\_.
- b. The movement of negative electric charges creates an \_\_\_\_\_.
- c. Electricity flows when a \_\_\_\_\_ is complete.
- d. Magnets attract objects made of \_\_\_\_\_ materials.
- e. Most plastics are electrical \_\_\_\_\_.