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 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 _____