



# JOULE EFFECT

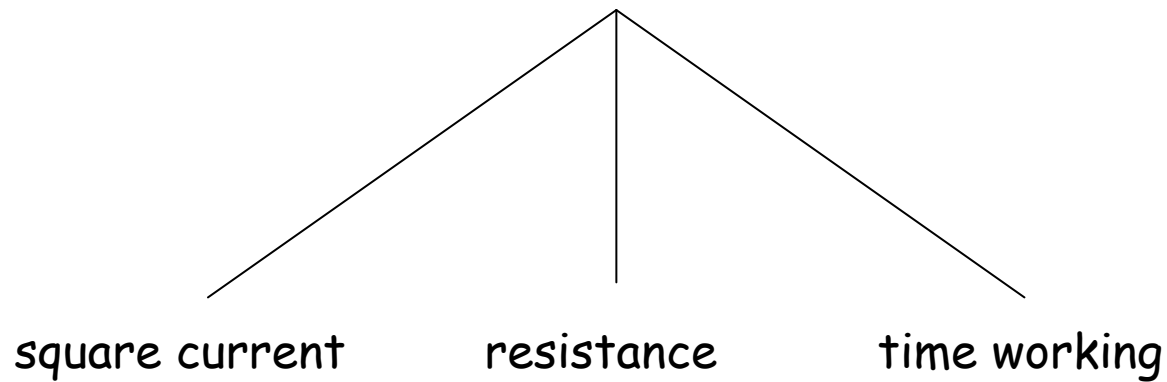
Belén Gallego Sanz. IES La Segarra

Look at these pictures:

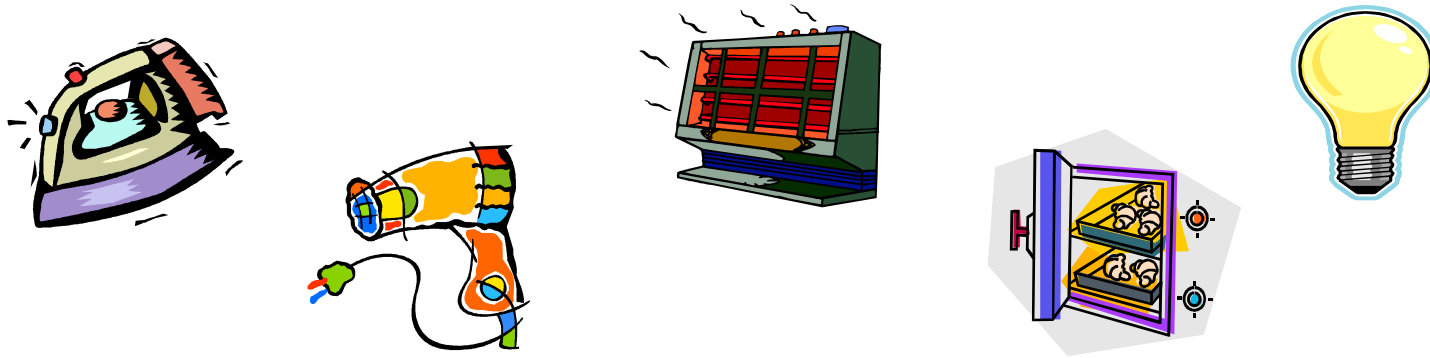


# The JOULE effect...

depends on



Some devices that work because of Joule effect





# Danger Electricity

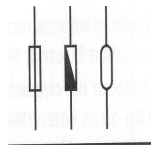
- **Short circuit:** is an electric circuit accident. When current increases too much heat increase too and it can damage the circuit and catch fire.

- **Fuse:** It is a thin piece of wire that is not made of copper.

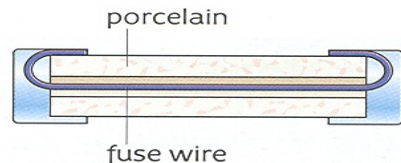
- It is made of a material that melts easier with heat (  ).

- It serves to protect circuits.

- Its symbols are



- Parts of a fuse:



- Fuses have normally the **current** they need to blow **written above**.

- If an electric toaster takes current of 4 A it needs a 5 A fuse.