

Make Your Own Fruit Battery

You will need:*

- **Several pieces of fruit**



- **Copper plated nails**

- **Zinc plated nails**

- **Wires with crocodile clips**

- **LED**



To make your very own battery:

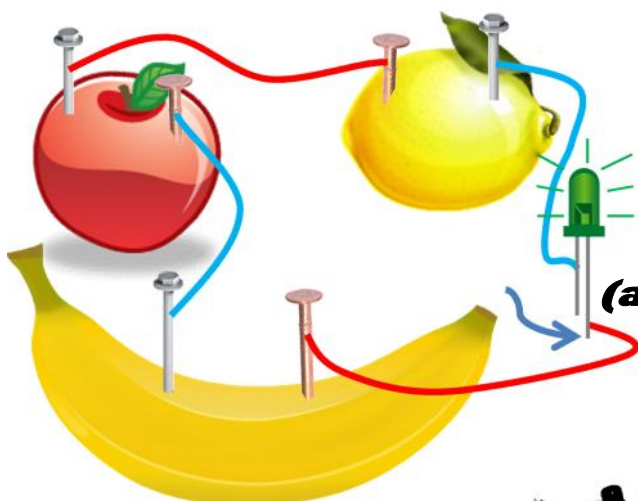
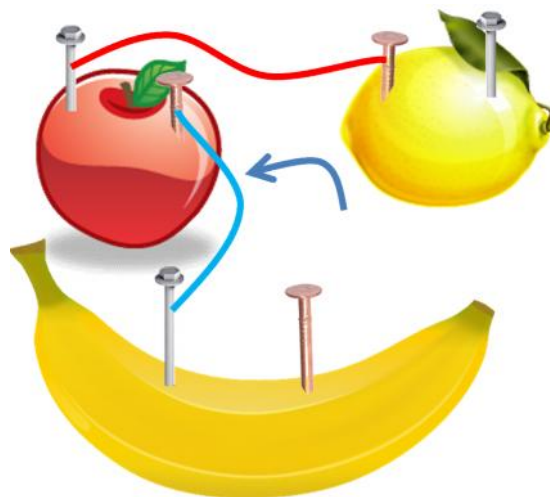
Kids, make sure you have a responsible adult to help you.

**All equipment available from stores such as Homebase and Maplin.*



1. Insert nails 2 cm apart.

2. Connect opposite coloured nails in different fruit.



3. Make sure to connect the copper nail to the long part of the LED.
(add more fruit or swap LED wires if it does not light up)



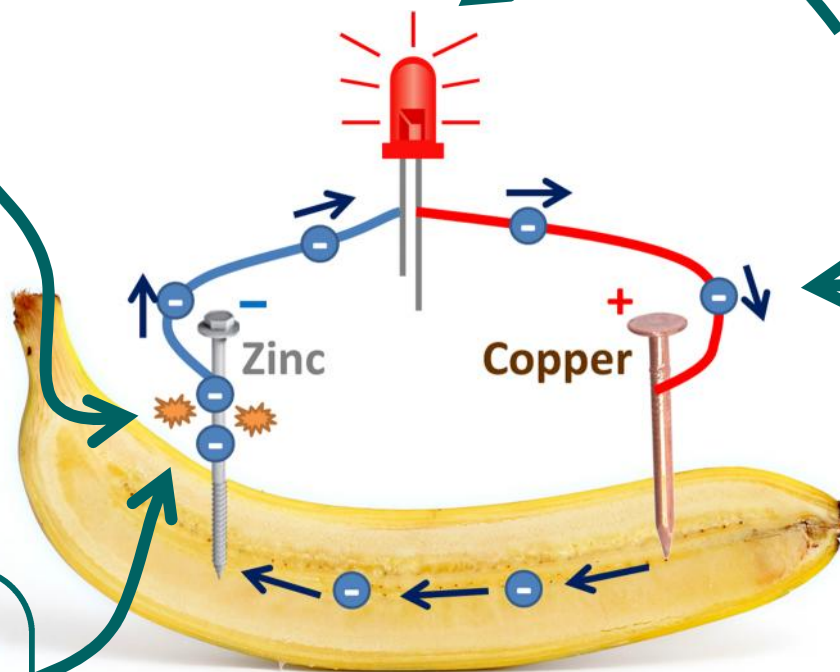
How Does a Fruit Battery Work?

1

The zinc reacts with the fruit, this causes negative electrons to build up.

2

The negative electrons repel each other, and so want to move to a place with fewer electrons.



4

When a wire connects the two nails the electrons can move from the zinc to the copper, lighting the LED!

3

The electrons move away from one another by going to the copper nail.

