

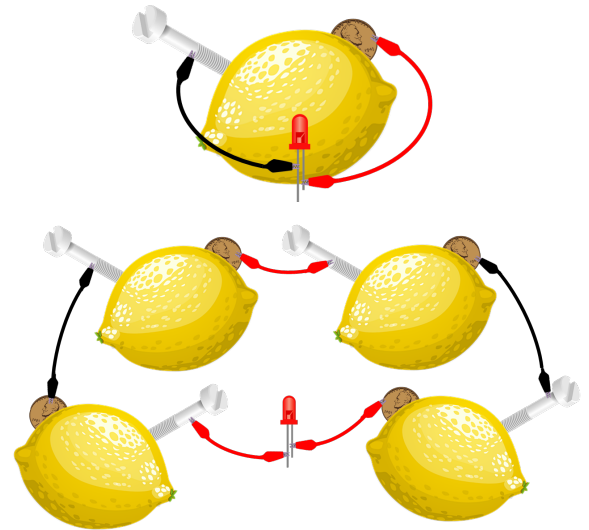


Describe the basic parts of a circuit

You are going to build a lemon battery. Then answer questions about the battery you have built

Build your battery

- Push your zinc nail/screw and copper penny into the side of the lemon, so that they make contact with the juice inside.
- Connect one end of a wire to the penny and the other end to the short wire of the LED.
- Connect one end of another wire to the nail/screw and the other end to the long wire of the LED.
- This will probably not be enough to power the LED, so you will have to make 3 more lemon batteries and connect them up in your circuit.



Explain why you need 4 lemons to make the LED light up.

Explain why the lemons need to be arranged with the screw of one lemon wired to the penny of another.

Explain why the metal parts need to be in contact with the lemon juice.

What do you think would happen if you build the circuit with eight lemons?

Stretch:
What do you think would happen if you changed the metal?
Explain your ideas.

Challenge:
What other fruit do you think you could use to make a battery?
Explain your ideas.