



# Y5/Y6 -As Scientists, our big question is...

## How can you light up your life? (Electricity)



REMEMBERING



### Prior Learning

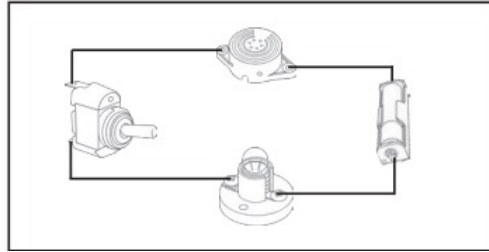


1. **Renewable energy sources** are sources like solar and wind power where the resources can be used over and over again (will not run out)

UNDERSTANDING



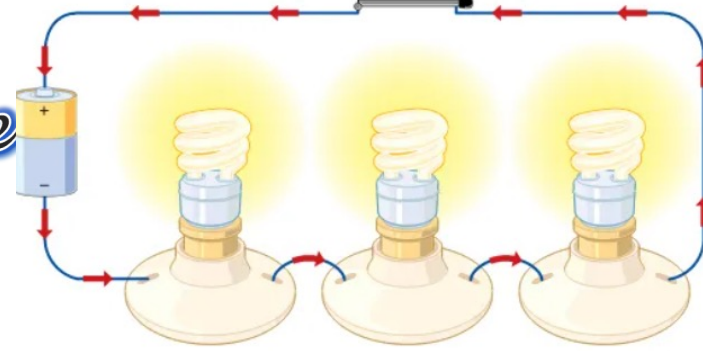
### Sticky Knowledge



2. An electrical circuit needs a power source and a linked path around which electricity can flow. A power source could be a battery or mains electricity. A circuit links electrical components together. Electrical components can be: bulbs, buzzers or motors.

3. The **voltage** is how strong the current is in a circuit and it is what "pushes" the current through the circuit.

4. When electrical components are arranged along one wire that does not branch, it is called a series circuit.



APPLYING



### My Aspiration

When a bulb "blows" a parallel circuit allows other bulbs in the circuit to stay lit but in a series circuit the "blown" bulb breaks the circuit and all bulbs go out.

What are the definitions of each of these Science topic words?

(A) bulb/ lamp

(B) amp

(C) Electrical conductor

(D) An electrical insulator

(E) circuit

(F) Prediction

A component that converts electrical energy into light energy.

Standard unit of electrical current

Something that allows electricity to pass through it.

Something that does not allow electricity to pass through it.

A linked path around which electricity can

What you think might happen.