Science - Year 4 – Spring - How does an electrical circuit work?

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What I need to know by the end of this unit:

- Many common appliances run on electricity.
- Cells, batteries and the mains are all sources of electrical energy.
- A simple series electrical circuit can include cells, wires, bulbs, switches and buzzers.
- Simple series circuits can be represented by drawing simple circuit diagrams.
- Electrical current can only flow if there is a complete circuit.
- Wires allow electrical current to flow around a circuit.
- A lamp will only light if it is part of a complete loop with a battery.
- A switch functions by completing or breaking a complete circuit.
- Metals are good conductors of electricity.

Vocabulary Focus – Top 5!

- **Electricity –** a way of moving the energy needed to power appliances
- **Battery –** two or more cells joined together to store more energy.
- **Cell –** a portable store of energy
- **Circuit –** a closed path that energy can flow through.
- **Switch -** a device that opens and closes an electrical circuit.

Can you match these key words to the correct image on the right?

SDG and Lyfta Link:

Lyfta Lesson - Asalif in Ethiopia – Design and make your own torch.

SDGs: 3, 4 and 7