# How could we cope without electricity for one day?

1. Why have we become so dependent on electricity?
2. How can we create our own circuit?
3. How can we tell if our circuit will work or not?
4. Can we make our own switches?
5. What are conductors and insulators?
6. Reflection: Working as a team, can you put together a presentation which tells us about electricity?

**Hook for Learning:**

How many appliances rely on electricity in your house?
**You Wouldn't Want to Live Without Electricity!** by Ian Graham

**As Thinkers can we…?**

*Can give alternative solutions to explanations.

*Draw inference and make deductions from a range of sources

*Ask questions to check understanding

**As Talkers can we…?**

*Evaluate each other's products giving praise and constructive criticism

* Ask questions to gain clarification

**We learn the following vocabulary knowledge.**
electricity          circuit
energy
heat
light
electric components
cells
switch
bulbs
buzzer

**We learn the following English knowledge and skills.**
- Write in role as a character from 'Journey to Jo'burg' about witnessing electricity for the first time in your village
- Write a set of instructions explaining how to make and use your burglar alarm system
- **We learn the following Maths knowledge and skills.**
- Maths link- time graph to show energy usage in school across the year.

**We learn the following design knowledge and skills.**

- Use our knowledge of electric circuits to create our own burglar alarm system?

**We learn the following scientific knowledge and skills.**

• identify common appliances that run on electricity **(1)**

• construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers **(2)**

• identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery **(3)**

• recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit **(4)**

• recognise some common conductors **(5)**