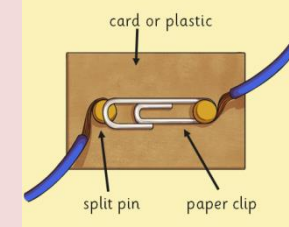
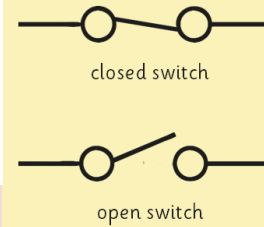


Year 4 Summer 2 Design and Technology – Battery Operated Lights

Key facts

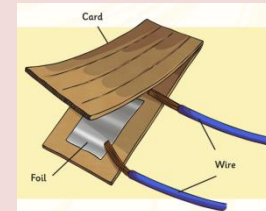
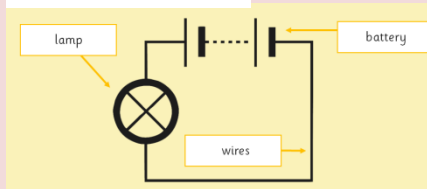
- STEM is an acronym for science, design and technology, engineering and mathematics
- In the Victorian period, in 1879, Thomas Edison invented the modern light bulb.
- LED lights use up to 85% less energy than regular bulbs
- There are two types of electricity – mains electricity and battery electricity
- A series circuit is a single circuit where electricity passes through one component and then the next
- A parallel circuit uses two smaller circuits, each with its own bulb
- Conductors allow electricity to pass through
- Insulators do not allow electricity to pass through easily

switches cause a break in the circuit



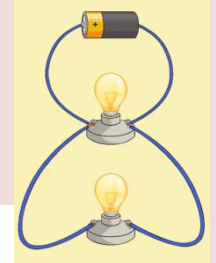
home made switch with a paperclip

series circuit



foil and card switch

parallel circuit



Vocabulary

- engineering
- inventors
- chronological
- STEM
- conductor
- insulator
- series
- parallel
- circuit
- components
- symbol

Keeping safe around electricity

