



Working together to be the best that we can be

Golden Thread: Technological Advancement

Making secure connections

Connecting block



Twist strands of wire together



Wrap ends around



Bulb holder – Bend wire around screw in direction of turning when tightening



Tape over with insulating tape

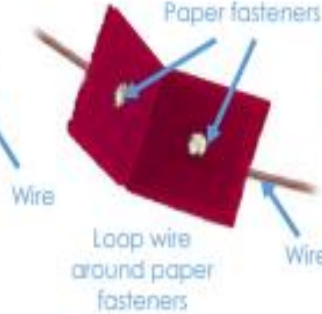


Handmade switches

Paperclip



Paper fasteners



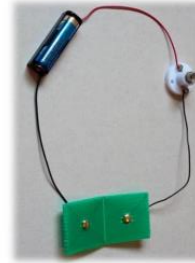
Loop wire around paper fasteners

Card



Foil on inside surfaces

Commercial switches



Push-to-break switch

The switch is off while the button is pushed, but returns to its 'on' position when button is released.



Push-to-make switch

When you push, the electricity flows through the circuit, but when you release it the circuit is broken and the switch is off.



Reed switch

Activated by a magnet – this closes the contacts and completes the circuit.

Toggle switch



Glossary

- **Circuit** – path through which electricity passes.
- **Conductor** – a material which allows an electric current to pass through it.
- **Insulator** – a material which does not easily allow electric current to pass through it.
- **Prototype** – a model made to test whether a design will work.
- **Push-to-break switch** – a switch turned off by pressing it.
- **Push-to-make switch** – a switch turned on by pressing it.
- **Reed switch** – a switch operated by a magnet.
- **Toggle switch** – a switch operated when a lever is pressed.
- **System** – a set of related parts or components that together achieve a desired outcome.
- **Output devices** – components that produce an outcome e.g. bulbs and buzzers.
- **Input devices** – components that are used to control an electrical circuit e.g. switches.