



The Project Title

Design, make and evaluate a table lamp for a child's bedroom so they can read before bedtime.

What should I already know?

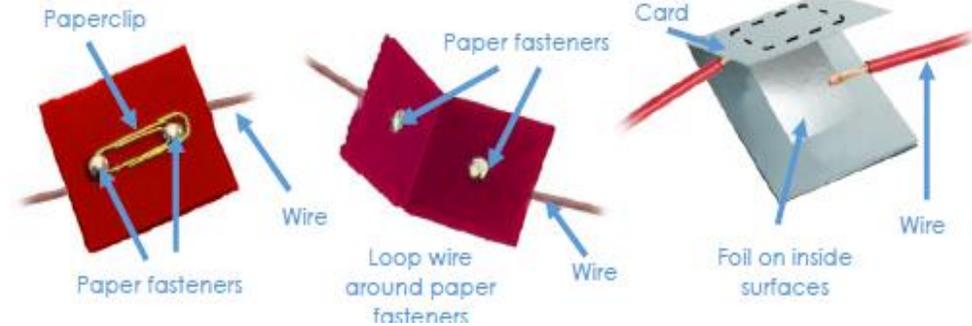
- Constructed a simple series electrical circuit in science, using bulbs, switches and buzzers.
- Cut and joined a variety of construction materials, such as wood, card, plastic, reclaimed materials and glue.

Powerful Knowledge

- Plan, make and evaluate a desk lamp.
- Gather information about needs and wants and develop a design criteria to match this
- Generate, develop, model and communicate realistic ideas through annotated sketches, cross sectional and exploded diagrams
- Investigate a range of battery powered products
- Order the main stages of making
- Demonstrate how to find a fault in a simple circuit and correct it
- To understand the dangers of electricity

Useful Diagrams

Handmade switches



Vocabulary

<b>conductor</b>	materials that allow electric charges to move through them
<b>insulator</b>	material which does not easily allow heat and/or electricity to pass through it
<b>prototype</b>	the original model, a sample on which to base future designs
<b>system</b>	a set of related parts or components that together achieve a desired outcome

Examples of table lamps:

