



What should I already know?

- The use of lightbulbs to illuminate something.
- Some examples of illuminated signs within your area.

What will I know by the end of this unit?

- How to plan and design my own light up sign.
- How to set a working circuit up.
- How to adapt my design.
- How to evaluate my design.

Vocabulary:

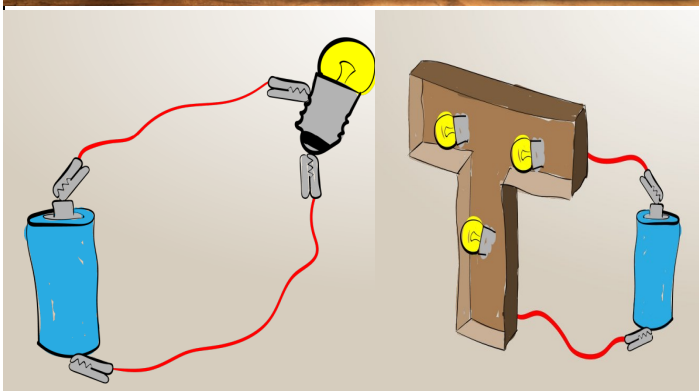
LED	A light-emitting diode which glows when a voltage is applied.
Bulb	A small light source.
Transparent	A material that allows light to pass through so that objects behind can be distinctly seen.
Translucent	A material that allows light, but not detailed shapes to pass through.
Opaque	A material that is not able to be seen through.
Illuminated	Lit up with bright lights.
Plan	Steps put in place to design a finished product.
Design process	The process in which you make a product.
Evaluate	The process in which you decide how useful your product is.
Design materials	The things you use to make a product.
Circuit	A complete circular path that electricity flows through.
Adapt	To modify something to make it suitable for a purpose/audience.

Diagrams

Decorative Lights and Light-up Signs

These lightboxes and bulb lettering signs are small, decorative and fun to have at home!

Do you have any light-up signs like this where you live?



Cultural Capital - (including focused text / WOW moment / visitors / trips / fieldwork)

Explore illuminated signs in our area.

DT skills/techniques

- Investigating and evaluating example designs of light up signs.
- Understand how LEDs may be used instead of traditional incandescent bulbs in series circuits.
- To plan and design a light up sign for a specific audience.
- Evaluate a finished product and make changes if necessary.