

Year 6: Phoenix



Autumn 2

Building electrical cards

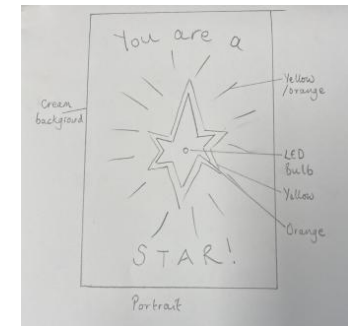
Symbols used for electrical circuits

Component	Symbol	Purpose
Cell (Battery)		Provides electrical energy.
Power Supply		Alternative to using cells.
Wire		Allows current to travel.
Lamp		Converts electrical energy into heat and light.
Motor		Converts electrical energy into movement energy.
Buzzer		Converts electrical energy into sound energy.
Switch		Allows circuit to be opened or closed.

Key Vocabulary	Definition
aesthetic	The look of a product
battery	A source of electrical power
bulb	A wire filament that is heated with electric until it glows
component	A part or element of a larger whole
design	A plan or drawing produced to show the look and function of a product
electrical circuit	A path for transmitting electrical current
purpose/function	What something is designed for or intended to do
stiff/stable	An object not likely to give way
switch	A device for making and breaking the connection in an electric circuit
user	A person who uses or operates something

Card Design WAGOLL - Front

The front of the card will contain a vivid image which will have an aspect which will light up when a certain part of the card is pressed.



Design Criteria

User

- Who is your card for? (A friend/member of their family.)
- How will your design be suited to the user? (Do they have favourite colours/objects/patterns?)

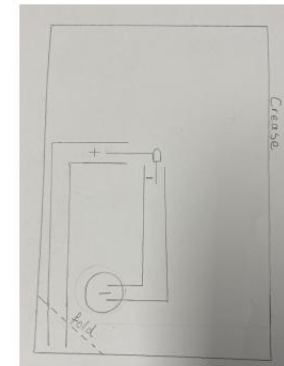
Purpose/function

- What is the card for? (Is it for a special celebration or to say something in particular? E.g. a birthday card/a card to say thank you.)
- How could the card be designed so that it is suitable for this purpose? (What is the purpose of the light in the card e.g. a light to show the flame of a candle on a birthday cake.)

Aesthetic appeal

- How will you make your design appealing? (Consider colours, shapes, patterns)

Card Design WAGOLL – Back



To make the circuit light up, we will create a circuit on the reverse side of the front cover.

The button, when pushed will complete the circuit and the light will come on.