



## Key facts to learn:

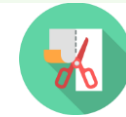
- **Topic:** Earth and Space
- Designing an electronic greetings card with a simple electrical control circuit
- Creating a labelled design showing positive and negative parts in relation to the LED and the battery
- Making a working circuit
- Mapping out where different components of the circuit will go
- Evaluating a completed product against the original design sheet and looking at modifications that could be made to improve the reliability or aesthetics of it or to incorporate another type of electronic device, eg: buzzer

## Key skills to do:

- Learning the key components used to create a functioning circuit
- Learning that graphite is a conductor and can be used as part of a circuit
- Learning the difference between series and parallel circuits
- Understanding that breaks in a circuit will stop it from working

## Words to know and spell (Tier 2 Vocabulary)

Circuit	Positive	Mapping
Control	Negative	Working
Electrical	Battery	Parts
Design	Difference	



## Frogs – DT KCV – Electrical Systems

## Words to understand and spell (Tier 3 Vocabulary)

<b>Components</b>	A part or element of a larger whole
<b>Product</b>	An article that is made
<b>Aesthetics</b>	A set of principles
<b>buzzer</b>	An electrical device that makes a buzzing noise which is used for signalling
<b>Modification</b>	A change made
<b>Device</b>	A thing made or adapted for purpose
<b>Functioning</b>	Work or operate in a particular way
<b>Parallel</b>	Side by side
<b>Series</b>	A series circuit comprises a path along which the whole current flows through each component
<b>Breaks</b>	A device for opening or closing an electrical circuit
<b>conductor</b>	A material or object that permits an electric current to flow easily

## Concept check questions. Test yourself:

How can you create a functioning circuit?

What is a conductor? What is a circuit?

Is graphite a conductor?

What is the difference between a series and parallel circuit?

What do breaks in a circuit do?