Electrical Systems - Brazil (Y5)

Prior Learning

- Year 4 Science; electricity.
- What is a circuit?
- Computing – programming using code.

Concepts

Design	A plan or drawing to show the look and function of a product.
Make	Form something by putting parts together and combining materials.
Evaluate	Establishing whether something was successful and how it could be improved.

Key Vocabulary

Switch	A device for making and breaking the connection in an electric circuit
Program	Provide (a computer or other machine) with coded instructions for the automatic performance of a task.
Circuit	A complete and closed path around which a circulating electric current can flow

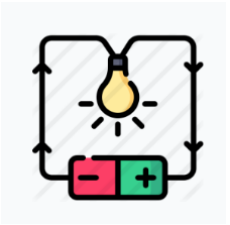
Key Facts

- In the Rio Carnival, Samba (dancing) competitions take place in the Sambadrome - a Parade area created for the carnival. The party then spills into the city streets
- Originally, Carnival was a food festival, because it was the last time to eat a lot before the 40 days of lent.
- The Carnival lasts for 5 days
- Extravagant makeup and clothing is worn at a Carnival to depict birds, insects, sea creatures or characters from Myths and folklore
- Floats (vehicles) are used to display large carnival decorations in the parade
- Different dancing schools compete to make the best float and have the best dancers in the Sambadrome

Images and Techniques

Making Electrical Systems

-In order to ensure that your circuit is closed, it is hugely important that your connections are secure.
-Connecting blocks and bulb holders are useful pieces of equipment for ensuring this.
-Twisting strands of wire and taping wire are also useful strategies for creating a secure connection.

Switches

-Homemade switches can be made using this equipment: