

Electronics

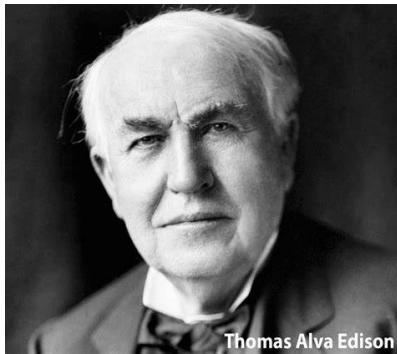
Year 5 Spring Term

Design Technology

What I already know?

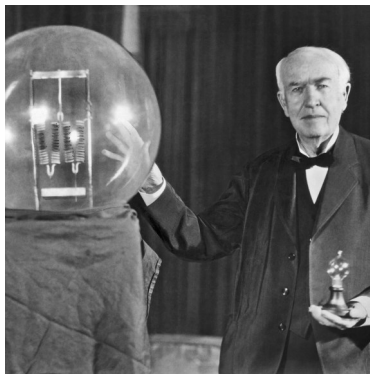
- I have designed, created and evaluated my own product using different joins for materials.
- I have made and used mechanisms including wheels, axels, levers, pulleys and cams.

Thomas Edison
Inventor



Thomas Alva Edison

Thomas Edison (1847-1931) was an American Inventor. In 1878 he started the Edison Electric Light Company, and came up with a system for electric lights in cities. One of his best known inventions was the first working lightbulb.



Technical knowledge-

How more complex electrical circuits can be used to make functional products.

Vocabulary

Battery	A device that stores electrical energy as a chemical
Circuit	A pathway that electricity can flow around
Electricity	The flow of an electric current or charge through a material
Switch	The switch is simply a small gap in the conductor where you can close or open the circuit
Test	A way of discovering, by questions or practical activities, what someone knows, or what someone or something can do or is like.
Light bulb	A device used to convert electricity into light, consisting of a source of illumination
Buzzers	An electrical device that makes a buzzing noise and is used for signalling
Motors	A machine, powered by electricity that supplies motive power for a vehicle or for another device with moving parts.

Essential Knowledge

Design

Make design decisions that take into account the availability of resources.

Learn about inventors who have developed ground-breaking products.

Make

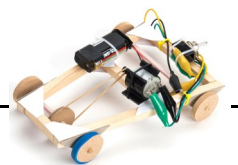
Produce an appropriate list of tools and equipment needed.

I will design a product which requires an electrical circuit.

Evaluate

To recognise errors in the design of the circuit and make necessary changes.

How well products achieve their purposes.



Connecting Concepts

Design:

function, inspiration, innovation



I will design an electrical system in a product using switches, bulbs, buzzers and motors.

Health and Safety



I will ensure I will use the electrical equipment safely