

**D&T - Year 3/4 - Cycle A -
Electronics/construction
Sir Humphry Davy & Thomas Edison**

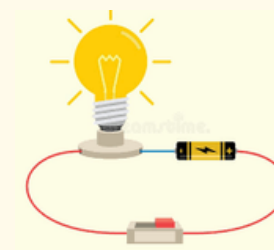
What do I already know how to do?

- build simple structures, exploring how they can be made stronger, stiffer and more stable (use joining, rolling, folding, laying bricks to spread out the weight not directly on top of each other and own ideas).
- use safe ways of cutting materials including a junior hacksaw with support.

I will know how to design and make a lamp to help the miners see down the mines inspired by Sir Humphrey Davy by:

- adding a simple electrical circuit in their product including a bulb.
- altering my product after checking.
- starting to understand that electrical systems have an input, process and output, and can be used to create a functional product.
- measuring, marking out, cutting and shaping a range of materials, using appropriate tools, equipment and techniques.

circuit



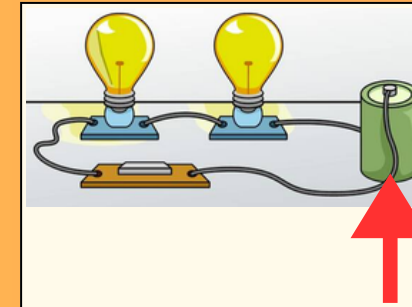
a complete circular path that electricity flows through.

functional



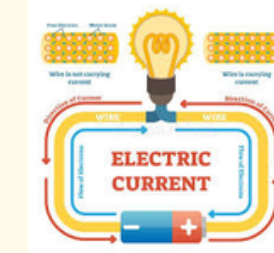
-serving a purpose or able to serve the intended purpose.

input



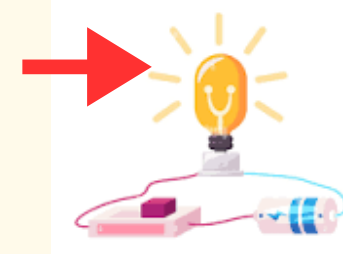
the power, energy, signal, or information put into a machine or system.

process



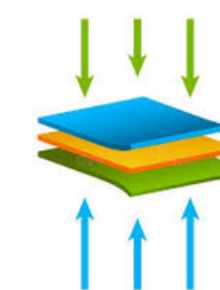
a series of actions used to produce something.

output



what is produced after the process, e.g. the bulb lights up.

reinforce



to strengthen with additional material, or support.



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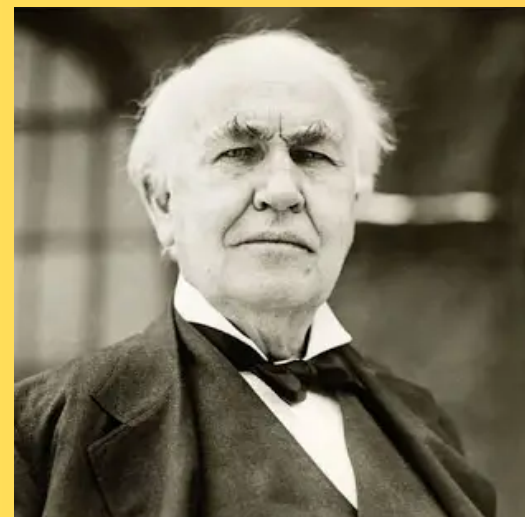
Sir Humphrey Davy

Sir Humphry Davy was a famous British scientist who lived from 1778 to 1829. He is best known for discovering several important chemical elements, including sodium and potassium. He also invented a special lamp, called the Davy lamp, that helped keep miners safe from dangerous explosions in coal mines.

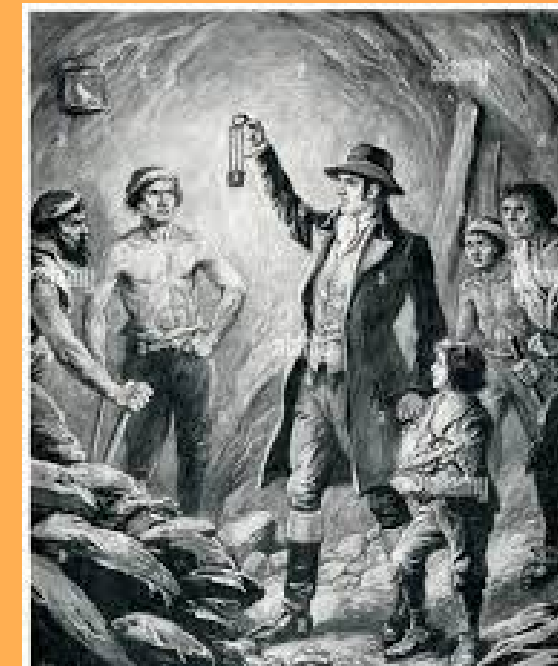


Thomas Edison

Thomas Edison was a famous American inventor who lived from 1847 to 1931. He invented many things that changed the world, including the electric light bulb, the phonograph (an early music player), and motion picture cameras. His inventions made life easier and more fun for people all around the world.



Our brief: design and make a lamp to help the miners see down the mines



What do we do? →

- Research your artist/s
- Explore new skills
- Design
- Create
- Evaluate