



Sparks May Fly- ICT and Electrical Systems



DT

Year 4 Autumn Term 1

Key Vocabulary

torch	a portable battery powered electrical lamp
electrical circuit	a network of electrical components that provide a closed path for the current to flow
batteries	used to give electrical energy to toys or other electrical items
prototype	the first version of the design
strength	how strong an object is
weaknesses	how limited a design is, due to its weakness
sequence	how actions are put together in order to perform a sequence



Torches come in all different sizes and are used for different purposes. Torches are a light source and are used in the absence of light.

The invention of the light bulb changed the world. People's activities were no longer dependent on daylight - they could work, travel and socialise into the night.

The invention of the battery also changed the world! It meant that no power cables were needed, and allowed many electrical devices to be portable. (Think of mobile phones today!)

Which do you think is the most important invention? Why?

Famous inventors

Thomas Edison invented the lightbulb.

David Misell- Invented the torch on 10 January 1899. He was a british inventor.

CAD- Computer Aided Design
use 2chart on purple mash to sequence your design process.



bulb wires switch batteries

For a torch to work, these components need to be joined together to create a simple electrical circuit. Do you know what this might look like inside a torch?

