Autumn Term



The Project Title

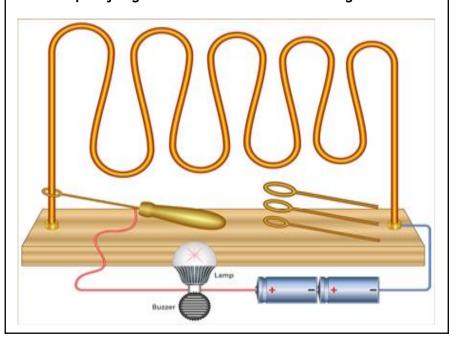
Design, make and evaluate an electrical board game.

What should I already know?

 Understanding of the essential characteristics of a series circuit and experience of creating a battery powered, functional, electrical product.

Useful Diagrams

An example of a game that uses a buzzer and light:



Powerful Knowledge

- Measuring, marking out, cutting and joining skills.
- Practise methods of making secure connections
- Draw on Science knowledge by exploring a range of electrical systems with lights and buzzers
- Avoid making short circuits
- Explore ideas through annotated sketches, pictoral representations or circuit diagrams and explain how the circuit works
- Produce detailed step by step plans and list of tools equipment and materials needed
- Critically evaluate the final product and test them on the user.

Vocabulary	
conductor	materials that allow electric charges to move through them
insulator	material which does not easily allow heat and/or electricity to pass through it
protype	the original model, a sample on which to base future designs
system	a set of related parts or components that together achieve a desired outcome
short circuit	A short circuit happens when the current going through wires does not travel the correct path of the electrical current