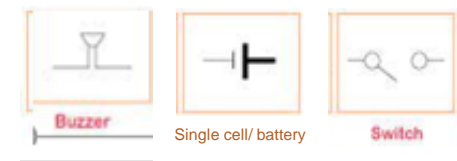


# KNOWLEDGE ORGANISER

## Design & Technology – electrical system



### ESSENTIAL DT (CIRCUIT CONSTRUCTION) VOCABULARY

<b>Switch</b>	Used to break electrical signal- turn electrical circuits on and off.
<b>Buzzer</b>	An electrical device that makes a buzzing sound as a signal.
<b>Battery connector</b>	Joins battery to wire.
<b>Galvanized Iron wire</b>	Mild mixture of iron and carbon wires with a thin coating of zinc that can be used for wiring and shaping.
<b>Wire loop game</b>	A game which involves guiding a metal loop through a length of wire, without touching the loop to the wire.
<b>Pillars</b>	A tall vertical structure used as a support for a building, ornament or monument.
<b>Series circuit</b>	A simple pathway that lets electrons flow to one or more resistors. A resistor is anything that uses power from a cell (battery).
<b>Steel</b>	Hard metal that people use to make many different products- a mixture of iron and a little of carbon.

### MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY

<b>Battery</b>	Supply energy to the circuit by making electricity with the reaction of certain chemicals.
<b>Adhesive</b>	A narrow strip of adhesive, used to hold or fasten something.
<b>Electricity</b>	Electricity is an energy and we can convert these energy into a different type of energy like heat, light, sound or movement.

### Key parts for creating circuits

Galvanised Iron wire

cardboard

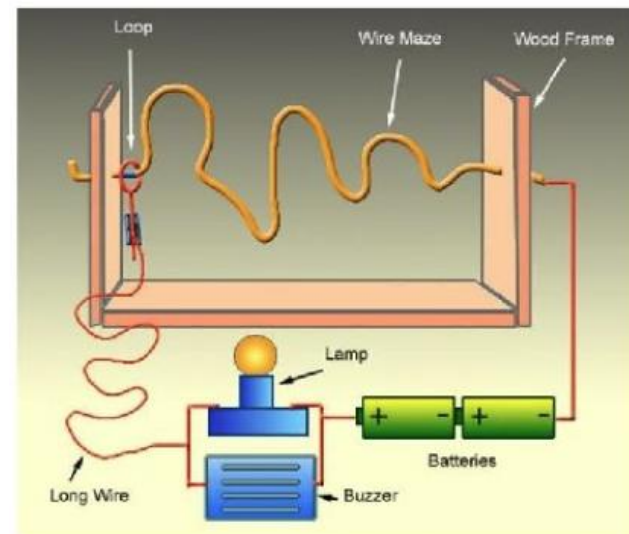
battery connector containing batteries

switch

buzzer

Loop handle (wrapped with plastic)

### Diagram of a wire loop circuit and electrical circuit symbols



### Other games including an electrical circuit

**HOT WIRES**  
The Plug & Play Electronics Set

**OPERATION**  
WITH DOCTOR CARDS & CLASSIC ALIMENTS!

**CIRCUIT MAZE**  
ELECTRIC CURRENT LOGIC GAME

