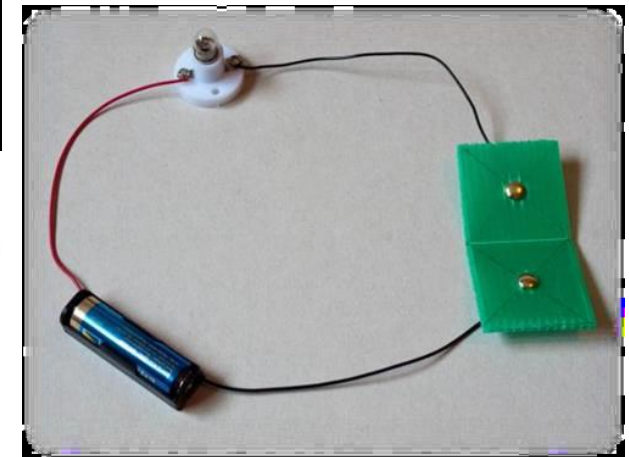


Knowledge Organiser - Simple Circuits & Switches (Design & Technology Year 4)

Key Vocabulary	Definition
Circuit	A path through which electricity passes.
Conductor	a material which allows an electric current to pass through it.
Insulator	A material which does not easily allow electric current to pass
System	A set of parts that work together achieve a desired outcome.
Output Devices	Components that produce an outcome e.g. bulbs and buzzers.
Input Devices	Components that are used to control an electrical circuit e.g. switches
Fault	A break or problem in a system that prevents it from achieving the desired outcome.
Connection	Where one part of a circuit is attached to another.



A torch made using simple components



A simple circuit with a bulb as an output

Making secure connections

Toggle switch
Simple on/off
switch



Connecting
block



Bulb holder –
Bend wire around screw
in direction of turning
when tightening

Twist strands of
wire together



Wrap ends
around



Tape over with
insulating tape

