



Science Topic : Electricity	Yea	r 6 Term 2
Key Knowledge		Key Vocabulary
To know that electricity can only flow through a complete circuit	Electrical conductors	Materials which allow electricity to flow through them easily, for example, metals
To know that the brightness of a bulb or the volume of a buzzer depends on the number of batteries used in the circuit To know that adding more batteries (cells) to a circuit will make	Electrical insulators	Materials which do not allow electricity to travel through it easily, for example, plastics
a bulb (lamp) brighter or a buzzer louder To know that using a battery with a higher voltage will make a	Electrical circuit	An <b>electrical circuit</b> is a path or line through which an <b>electrical</b> current flows. The path may be closed (joined at both ends), making it a loop. A closed <b>circuit</b> makes <b>electrical</b> curre nt flow possible. It may also be an open <b>circuit</b> where the electron flow is cut short because the path is
bulb brighter or a buzzer louder     I can work out how changing a circuit will affect the brightness of a bulb or the volume of a buzzer     I can work out how opening and closing switches will affect the components in a circuit     I know the circuit symbols for some components, like a battery		
(cell), bulb (lamp), buzzer, motor and switches	Component	broken. A part or element of a larger whole
BULB   A component which lights up when electricity passes through it in a circuit   MOTOR	Bulb	A replaceable component that produces light from <b>electricity</b> is called a <b>lamp</b> . Lamps are commonly called light <b>bulbs</b>
A component which moves (spins) when electricity passes through it in a circuit   Image: Component which makes a sound when electricity	Motor	An <b>electric motor</b> is an <b>electrical</b> machine that converts <b>electrical</b> energy into mechanical energy
passes through it in a circuit   WIRE   Plastic-coated electrical wire	Buzzer	A <b>buzzer</b> or <b>beeper</b> is an audio signalling device
which conducts electricity around a circuit     SWITCH Part of a circuit which can easily be opened or closed to control the flow of electric	Wire	<b>Electric</b> current ( <b>electricity</b> ) is a flow or movement of <b>electrical</b> charge. The <b>electricity</b> is conducted through copper <b>wires</b>
Battery A safe store of electrical energy.	Switch	A <b>switch</b> is an <b>electrical</b> component that can disconnect or connect the buzzer or light to the circuit
Know how to make a bulb brighter or a buzzer louder change a circuit to affect the brightness of a bulb	Battery	Battery (electricity) In science and technology, a battery is a device that stores chemical energy and makes it available in an electrical form
or the volume of a buzzer affect the components in a circuit by opening and closing switches	Cell	A <b>cell</b> is a device used to generate <b>electricity</b> , or to make chemical reactions by applying <b>electricity</b> . A battery is one or more <b>cells</b> , connected.