	Science	Electricity Year 4
Key Vocabulary		Key Knowledge
WORD	DEFINITION	1. A circuit contains a battery (cell), wires and a component that requires electricity to work
batteries	a pathway that electricity flows around	(bulb, motor or buzzer).2. Electrical current flows through the wires from the battery (cell) to the bulb, motor or
bulb	the glass case that contains the filament of an electric lamp	 buzzer. 3. A switch can break or reconnect a circuit. 4. A switch controls the flow of the electrical current around the circuit. When the switch is
circuit	a pathway that electricity flows around	off, the current cannot flow. This is not the same as an incomplete circuit. Components
conductor	electrical conductors are materials which allow electricity to flow through them easily	cell: Normally, we would call this a battery but complete circuit. bulb: Lights up in a complete circuit. buzzer: Makes a noise in a complete circuit. wires: Used to connect the different components movement in a other components in the
control	manage the amount of something	Two or more cells joined together form a battery.
current	the flow of electricity	
electricity	energy that powers electrical appliances	Circuits Series Circuit Complete Circuit Incomplete Circuit Switches can be used to open or close a
hydropower	a process that produces electricity using the power of water	A circuit where the components are connected in a loop. Electricity flows There is a break in the circuit that prevents the electricity from flowing. The components will not work. Circuit. When off, a switch 'breaks' the circuit to stop the flow of electricity. When on, a switch 'completes' the circuit and allows the electricity to flow.
insulator	materials that do not let electricity pass through them easily	through each component in a single pathway. The components The components The components
switch	a device which builds and breaks the connection in an electric circuit	will work.
voltage	the measure of electrical power	Materials that allow electricity to pass through to create a complete circuit are called electrical conductors.
wind turbines	a device which produces electricity using the power of the wind	Materials that do not allow electricity to pass through and do not complete a circuit are called electrical insulators.
		Examples of Electrical Conductors Examples of Electrical Insulators wood plastic paper rubber glass fabric

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