

Subject Specific Vocabulary		Electrical symbols			Key Knowledge
conductor	Some materials let electricity pass through them easily. These materials are known as electrical conductors.	Component Cell (Battery)	Symbol	Purpose Provides electrical energy	Using more motors or buzzers in a circuit will make each motor spin slower and each buzzer will be
insulator	Materials that do not allow an electric current to flow freely through are insulators. Plastic, wood, glass and rubber are good electrical insulators.	Power supply Wire	_0 0_	Alternative to using cells	quieter.
component	An electrical component is the term for any part of an electrical circuit e.g. wires, switches, bulbs, motors, buzzers.	Bulb/light Motor Buzzer	-⊗- -®- 7	Converts electrical energy into heat and light Converts electrical energy into movement energy Converts electrical energy	Adding more bulbs to a circuit will make each bulb less bright.
circuits	Electricity can flow through the components in a complete electrical circuit. It needs a power source with wires connected to both the positive and negative ends.	Switch Allows circuit to be opened or closed			Adding more cells (or a battery with a higher voltage) to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound.
cell	An electrical cell is a device that is used to generate electricity, or one that is used to make chemical reactions possible by applying electricity. A battery is a cell.				Turning a switch off (open) breaks a
voltage (volts)	Voltage is the name for the electric force that causes electrons to flow. The higher the voltage on a battery, the more power is has.	open switch colored switch cell cell cell cell cell cell cell cell cell cell cell cell cell cell concerted concerte			