Science - Circuits, batteries and switches





appliances.



Investigating bulb brightness and resistance Investigating bulb brightness and voltage • The more components • The more cells The more bulbs, the The more cells. the added to a circuit. added, the higher dimmer their brightness. higher the voltage and the greater the the voltage. the brighter the bulbs. resistance. 41414 • The higher the • This makes it harder voltage, the more for the current 'push' there is of (charge) to flow. the current. • Less energy is • More energy is transferred so the transferred so the bulbs are dimmer. bulbs are brighter. Or the more buzzers, Or the more cells, the the quieter the sound. louder the buzzer. A measure of how much electrical If more than one current charge flows through a circuit. switch is used in a circuit, both need Something that slows the flow to be closed for it resistance of current/electrical charge in to work. These are a circuit. often used to keep people safe with The measure of how much energy Switches need materials that dangerous is carried by electrical charge; voltage

are electrical conductors to complete the circuit.

the 'push' from the power source.