

Word sheets that include new words from the 'Focus on:' pages are available on the Exploring Science website.

7Ja – Live and dangerous/Switched on/Circuit diagrams/Current affairs

| Word | Pronunciation | Meaning |
|---------------------|--------------------|--|
| ammeter | | Measures how much electricity is flowing around a circuit. |
| amp (A) | | The unit for current. |
| cell | | A source of electricity with a low 'energy'. Cells push electrons round a circuit. |
| circuit | <i>sir-kit</i> | A complete loop that electricity flows around. |
| component | <i>com-po-nent</i> | Something in a circuit, like a bulb, switch or motor. |
| conductor | | A material that lets electricity flow through it. |
| electric current | | The flow of electricity around a circuit. |
| insulator | | A material that does not let electricity flow through it. |
| mains (electricity) | | Alternating current at 230 V provided to houses, shops etc. |
| power pack | | A source of electricity with a low energy (low voltage). |
| switch | | Turns electricity on or off, by closing or opening a gap in a circuit. |
| voltage | | A way of saying how much energy is transferred by electricity. |

7Jb – Go with the flow

| Word | Pronunciation | Meaning |
|-------------------|---------------|---|
| atom | | The smallest part of an element. |
| electric current | | The flow of electrons around a circuit. |
| electrical energy | | The kind of energy carried by electricity. |
| electron | | Tiny particle that flows around a circuit. |
| filament | | Thin piece of wire inside a light bulb that glows when electricity is flowing through it. |
| model | | A scientific way of thinking about how things happen. |
| resistance | | A way of saying how difficult it is for electricity to flow through something. |
| resistor | | A component that makes it difficult for electricity to flow – resistors are used to control the size of the current in a circuit. |
| variable resistor | | A resistor that can be adjusted to change the amount of resistance it has. |
| voltage | | A way of saying how much energy is transferred by electricity. |

7Jc – Series and parallel

| Word | Pronunciation | Meaning |
|------------------|---------------|--|
| component | | Something in a circuit, like a bulb, switch or motor. |
| parallel circuit | | A circuit with two or more wires running next to each other. |
| series circuit | | A circuit where there is only one loop of wire. |

7Jd – Using electricity

| Word | Pronunciation | Meaning |
|--------------|---------------|---|
| cable grip | | Part of a plug that holds the cable, and stops the wires being pulled out of the pins. |
| earth wire | | The green and yellow wire in a cable or plug. |
| filament | | Thin piece of wire inside a light bulb that glows when electricity is flowing through it. |
| fuse | | A piece of wire that melts if too much electricity flows through it. |
| live wire | | The brown wire in a cable or plug. |
| neutral wire | | The blue wire in a cable or plug. |

7Je – Electricity and you

| Word | Pronunciation | Meaning |
|----------------|---------------|--|
| electric shock | | When electricity flows through the body. |
| impulse | | Electrical signal carried by a nerve cell. |
| nerve | | Carries messages around the body. |