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| **What? (Key Knowledge)** | | | |
| Electricity | | | |
| What is Electricity?  Electricity is an energy source created by generators which can be powered by gas, coal, oil, wind or solar.  The electrical energy can be converted into other types of energy such as light, heat, movement or sound. Electricity is dangerous, so be careful when using electrical appliances. | | | |
| What are common appliances that run on electricity? | | | Any appliances that need to be plugged in run on electricity.  For example: television, computer, microwave, lights, X-Box |
| An electrical circuit | | | |
| A series circuit (One pathway around the circuit  Electricity can flow through the components in a complete electrical circuit.  A circuit always needs a power source, such as a battery, with wires connected to both the positive (+) and negative (-) ends. (A battery is made from a collection of cells connected together). A circuit can also contain other electrical components, such as bulbs, buzzers or motors, which allow electricity to pass through. Electricity will only travel around a circuit that is complete. That means it has no gaps. | | | |
| What is a switch? | | You can use a switch in a circuit to create a break in a circuit, or to complete the circuit. | |
| Possible Experiences | | | |
| * Set up circuits and predict whether the bulb will light or not. * Set up circuits and experiment with ways to make the bulbs brighter and how a switch works. * Set up a circuit to test materials that are conductors or insulators. * Find out about electricity generation on a trip to Fiddlers Ferry Power Station. | | | |
| **What? (Key Vocabulary)** | | | |
| Spelling | Definition/ Sentence | | |
| Electricity | An energy source | | |
| Generator | A machine that make electrical energy | | |
| Circuit | A path through which an electrical current flows | | |
| current | The flow of electrical charge | | |
| connected | Something that is joined or linked | | |
| **Diagrams and Symbols** | | | |
| **Would the bulb light up?** | | | |