**Science Knowledge Organiser Year 6 – Danger low voltage**

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| **Question for Learning;****How many simple circuits can you make?****Key learning;*** **Plastic materials do not conduct electricity.**
* **A single battery is called a cell - A cell is what makes the circuit work.**
* **Mains electricity can be dangerous if misused.**
* **Electric components must have two connection points.**
 | **Problem solving** |
| **Question for Learning;****What does a switch do?’****Key learning;** | **Comparative** |
| **Question for Learning;****How strong is your resistance?*** **Resistance is the measure of the difficulty that electrons have in flowing through a material.**
* **Voltage is the ‘push’ that causes current to flow round a circuit.**
* **Current describes the flow of electrons in a circuit.**
 | **Research**  |
| **Question for Learning;****Do you know your circuit diagrams and can you construct working circuits for them?*** **Electricity is the flow of electrons (current) around a circuit.**
 | **Problem solving** |
| **Question for Learning;****Will the lights stay on? (part 1 and 2)** | **Research and Exploration** |

**Key Words**

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| **Generator**  | An electric generator is a machine or device that converts mechanical energy or non-mechanical energy into electrical energy.  |
| **Component**  | Any part of an electric circuit. |
| **Voltage** | It is what makes electric charges move. It is the ‘push’ that causes charges to move in a wire or other electrical conductor.  |