**Year 6 Summer 1 – Electricity**

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| **Learning objectives for this topic** | **Key vocabulary** | **Useful websites to search for** |
| To use recognised symbols when representing a simple circuit in a diagram  To associate the brightness of a lamp or volume of a buzzer.  To compare the reasons for variations in how components function.  Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.  Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.  Use recognised symbols when representing a simple circuit in a diagram. | **Battery –** A container consisting of one or more cells where chemical energy is converted into electricity and used as a source of power  **Bulb –** A glass bulb which provides light by passing an electrical current through a filament  **Buzzer –** An electrical device that makes a buzzing noise and is used for signalling  **Cell –** A device containing electrodes that is used for generating current  **Circuit –** A complete and closed path around which a circulating electric current can flow  **Conductor** - A material or device which allows heat or electricity to carry through  **Current –** A flow of electricity which results from the ordered directional movement of electrically charged particles  **Electricity –** A form of energy resulting from the existence of charged particles  **Filament –** A conducting wire or thread with a high melting point that forms part of an electric bulb  **Motor –** A machine powered by electricity that supplies motive power for a vehicle or other moveable device  **Switch –** A device for making and breaking the connection in an electric circuit  **Voltage –** An electrical force that makes electricity move through a wire, measured in volts | www.coolkidfacts.com/electricity-factsbbc bitesize |
| **Key scientists and people** |
| **Andre Marie Ampere** – invented the unit for measuring electrical current  **Alessandro Volta** invented the electric battery.    **Benjamin Franklin** discovered that lightening is electric. |
| Image result for electricity circuit symbols ks2Components of a circuit  Image result for electricity ks2 |