Year 4

Learning to Recap: n/a

Science: Electricity (half-term)

New Knowledge and vocabulary **Electrical appliances** Objects that use electricity to power them. This power could come from batteries or mains electricity. Lights, televisions and computers are examples. Circuit From the Latin word circum meaning to 'go around.' A circuit can contain a **battery** (for power), wires (for the electricity to travel through) and a bulb or buzzer which uses the power. Switch Circuits can contain a switch to control the flow of energy between on and off. These are widely used for lights in buildings. Insulators and Insulators stop the flow of electricity. Insulators include wood, conductors plastic and glass. Conductors allow the flow of electricity. Examples include water, gold and copper. Electricity is useful but can be dan-Electrical safety gerous. Don't use electrical appliances with wet hands. Don't put fingers into appliances. If you aren't sure, always ask an adult.

Copper is an excellent conductor so it is often used in electrical wires



Examples of how to stay safe around electricity



Metals are conductors because...

Metals are conductors but....

Metals are conductors therefore....

Application of knowledge

Investigate the effect of changing a variable in a circuit. For example, what happens to the brightness of a bulb if more batteries are added?

Test a range of materials to determine to test if they are insulators or conductors by adding them in circuits.

Examples of electrical appliances that use electricity

