'Key Sheet' – Electricity

Year Group; 4

Key Content	Key Skills
• Understand how to stay safe around electricity • Identify common appliances that run on electricity (batteries and mains) • Identify the basic components of a circuit (cells, wires, bulbs, switches and buzzers) • Construct a simple electrical circuit • Understand that a circuit needs to be complete for a bulb to light. • Recognise and explain that a switch can complete a circuit (if it is closed) or break a circuit (if it is open). • Understand the terms conductor and insulator • Recognise some common conductors and insulators, and associate metals with being good conductors. **Pupils might work scientifically by:** • **Predicting whether a bulb will light from a picture and then checking the prediction** • **Conducting and experiment to identify materials as conductors or insulators.** **Note zinc chloride or zinc carbon batteries should be used when children are investigating ie Not alkaline or rechargeable batteries.**	• Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers • Predict whether and then identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery • Observe that some materials can and some cannot be used to close a gap in a circuit.
Key questions	**Key Vocabulary**
• What appliances need electricity to work? • How can you make a bulb light, buzzer sound? • Which materials are conductors and which are insulators?	**Electrical Circuit** **Bulb** **Cell** **Wire** **Buzzer** **Conductor of electricity** **Insulator** Prediction – recap