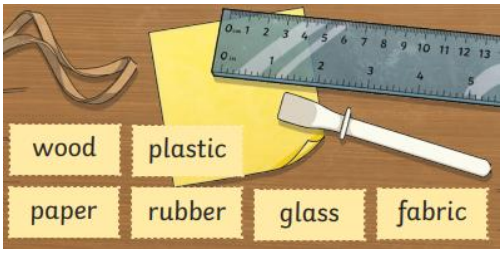
Topic: Electricity **Lower School** **Strand: Physics**

What should I already know?
• Distinguish between an object and the material from which it is made • Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock • Describe the simple physical properties of a variety of everyday materials • Compare and group together a variety of everyday materials on the basis of their simple physical properties • Identify and compare the suitability of a variety of everyday materials

What will I know by the end of the unit?	
Electrical conductors	
Electrical insulators	
Electrical components	

Investigations
• Identify common appliances that use electricity • To construct a simple circuit • Identify if a bulb will light up in a circuit • Carry out an investigation to test if materials are insulators or conductors • Carry out an investigation to test and make different switches

Vocabulary	
Electricity	The flow of an electric current through a material
Appliances	A piece of equipment or a device designed to perform a particular job
Battery	A device that stores electrical energy as a chemical
Circuit	A pathway that electricity can flow around
Mains electricity	Electricity supplied through wires to a building
Conductor	A material that will allow electricity to flow through
Insulator	A material that will not allow electricity to flow through
Motor	Uses electricity to spin
Bulb	Uses electricity to light up
Crocodile clips	Some wires have clips on each end to make it easier to attach to a circuit
Wires	Wires connect all of the different components of a circuit
Cell	One single battery
Battery	Two or more batteries together
Buzzer	Uses electricity to make a sound
Switch	Switches can put a gap in the circuit to stop the flow of electricity