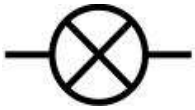
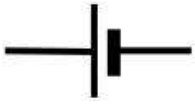
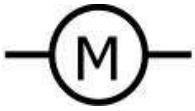
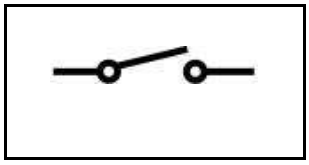
'Key Sheet' – Electricity

Year Group: 6

Key Content	Key Skills
• Use recognised symbols when representing a simple circuit in a diagram. • Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit • **Construct a simple circuit recapping year 4 work ie using batteries, bulbs and buzzers. In year 6 this should be linked to circuit diagrams and using symbols.** • **Investigate changing the voltage in a circuit observing the results using bulbs and/or buzzers (Note series circuits only)** • **Design and make a switch.**	• Understand how to represent a simple circuit in a diagram using recognised symbols. • Understand and explain the effect of changing the voltage within a circuit. • Explain and give reasons for why the brightness of bulbs is altering in different series circuits. (or loudness of buzzers) .
Key questions	**Key Vocabulary**
• How can you make a light bulb light? • Why isn't this buzzer sounding? (in a broken circuit.) • How can we draw a simple circuit using symbols? • How is power measured within a circuit? • If I add another cell what will happen to the brightness of the bulb?	**Circuit** **Voltage (V)** **Cell** **Symbols** battery bulb motor switch buzzer

Electrical symbols cheat sheet

	battery
	bulb
	buzzer
	cell
	closed switch
	motor



open switch

Note:

The difference between **cell** and **battery** is that a **cell** is a single unit that converts chemical energy into electrical energy, and a **battery** is a collection of **cells**.