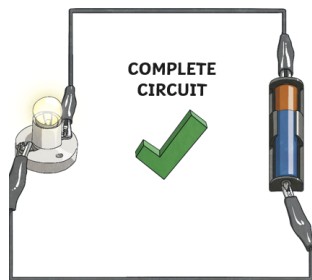


Science	Year 4
Focus: Electricity	
Age related scientific vocabulary	

circuit	A circuit is a complete path around which electricity can flow.
conductor	A material that allow electricity to pass through easily is known as electrical conductor. Many metals, such as copper, iron and steel, are good electrical conductors.
insulator	A material that does not allow electricity to pass through it is known as an electrical insulator. Plastic, wood, glass and rubber are good electrical insulators.



Key Knowledge
<ul style="list-style-type: none"> • A source of electricity (mains or battery) is needed for electrical devices to work. • Electricity sources push electricity round a circuit. • More batteries will push the electricity round the circuit faster. • Devices work harder when more electricity goes through them. • A complete circuit is needed for electricity to flow and devices to work. • Some materials allow electricity to flow easily and these are called conductors. • Materials that don't allow electricity to flow easily are called insulators.

Carlton Assessment Grid			
Success Criteria	Pupil Reflection		Teacher Assessment
	Before	After	
I can classify (sort) common appliances that run on electricity	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can construct a simple series circuit—naming its basic parts including cells, wires, bulbs, switches and buzzers	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I identify complete and incomplete circuits—I can begin to give scientific reasons for predictions	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I understand that a switch opens and closes a circuit	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I know the difference between an electrical conductor and insulator and give examples of each	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can investigate which metal is the best conductor of electricity— I can carry out investigations with growing independence	Before <input type="checkbox"/>	After <input type="checkbox"/>	