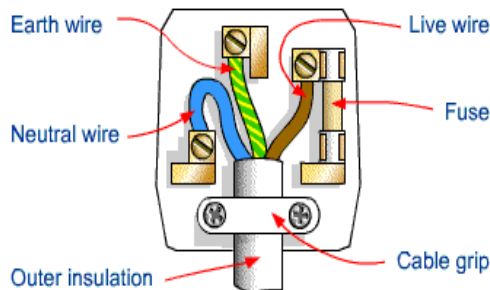


The Marist RC Primary School		Knowledge Organiser		
Year 4, Science Autumn		Electricity		
Builds on and leads to ...		Enquiry/skills		
Leads to Year 6 ... Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. • Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. • Use recognised symbols when representing a simple circuit in a diagram.		• making systematic and careful observations • construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers • setting up simple practical enquiries,		
What will I know by the end of the unit?	Vocabulary			
• identify common appliances that run on electricity • 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 • recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit • recognise some common conductors and insulators, and associate metals with being good conductors	electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance.		
	generate	To make or produce.		
	renewable	A source of electricity that will not run out. These include solar, geothermal, hydro and wind.		
	non-renewable	This source of energy will eventually run out and so will no longer be able to be used to make electricity. These include fossil fuels – coal, oil and natural gas.		
	appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone.		
	battery	A device that stores electrical energy as a chemical.		
	Electrical conductor	A material that will allow electricity to flow through it		
Assessment Task Pre and post unit spider diagram of knowledge. Working scientifically – experimenting the changes that occur when adding/removing batteries and bulbs.				
Diagrams / Maps / Images				
Earth wire Live wire Neutral wire Fuse Outer insulation Cable grip  Closed circuit Open circuit 