

		How can I be an elect	lic Primary Scl		
	Topic: Electricity	Year: 6		Strand: Physic	CS
 What should I already know? Identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts 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 Know the difference between a conductor or an insulator 		Nicholas Tesla (1856-1943)	Significant scientists A Nicholas Tesla was a <u>Serbian-</u> <u>American</u> engineer and physicist. He invented the first alternating current (AC) motor and developed AC generation and transmission technology. He worked for Thomas Edison when he first moved to New York.	Adding more cells to a circuit makes a bulb brighter: The bulb in this circuit will be brighter.	
circuit	Key vocabulary A complete path that an electric current can flow around. It flows from the battery, through wires and devices before returning to the battery. If the circuit is not complete the electric current cannot flow. A symbol used to represent various	 By the end of this topic I will: Know that adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound. Know that if you use a battery with a higher voltage, the same thing happens. Know that adding more bulbs to a circuit will make each bulb less bright. 	decide w	ations I will: nising and control variables. e what observations or urements to make over time and for	
symbol circuit diagram	electronic components or functions in a diagram of a circuit. A visual representation of an electrical circuit using symbols to represent the electrical components.		cell		Adding more bulbs to a circuit will make each bulb less bright.
cell battery	A single electrical energy source. A device consisting of one or more cells.	Know that using more motors or buzzers, each motor will spin more	battery	- +- +-	
switch	An electrical component that can make or break an electrical circuit.	slowly and each buzzer will be quieter. Know that turning a switch off	wire		
	When a switch is open (off), there is a gap in the circuit and electricity cannot flow around the circuit.	(open) breaks a circuit so the circuit is not complete and	bulb		
voltage	Volts are a measure of the energy of a flow of electricity. <u>Mains</u> electricity carries a voltage of 210-240 volts. A	electricity cannot flow. Know that any bulbs, motors or buzzers will then turn off as well.	motor	_FL	If we add a motor into a circuit with a sing
	typical cell in school has 1.5 volts. Know that you circuit symbols can be used to draw simple circuit diagrams.	switch	Open switch Closed switch	bulb, the bulb will be less bright. If we then add more motors to the circuit, each motor will spin more slowly.	