Ĭ	1					ol - Science	l - Science						
Castlefield So	chool	Topic: Electric	city	Year: Six				Th	eme: Energı	y		Strand: Physics	
Key Concepts									Key Vocabulary				
• Elect	• Electrons are very small particles that					Series Circuits				Measures	Measures the current in a circuit		
travel around an electrical circuit.					• A series circuit is a circuit that has only one route for the current to take.				Buzzer	An electric sound.	An electrical device that is used to make a buzzing sound.		
$(\mathbf{\bullet})(\mathbf{\bullet})(\mathbf{\bullet})(\mathbf{\bullet})$										A synonyr	A synonym for a battery.		
 For a circuit to work, it must be complete. If there is a break in the circuit, it is incomplete and the current 										nt The parts	The parts that something is made of		
					 If more bulbs or buzzers are added, the power has to be shared and so they will be dimmer or quieter. If just one part of this circuit breaks, the circuit is broken the flow of current stops. 				conductor	or A substance that heat electricity can pass through or along.			
cannot flow through it.More batteries or a higher voltage									current	A flow of e	A flow of electricity through a wire or circuit.		
creates more power to flow through the circuit.									insulator		A non-conductor of electricity or heat. It does not let heat or electricity to pass through or along.		
 Shortening the wires means the electrons have less resistance to flow through. 									resistance	e A force wł vehicle.	A force which slows down a moving object or vehicle.		
Circuit components and their symbols									resistor		A part of an electrical circuit that provides resistance to some of the current.		
—(A	A ammeter +++			Ł	attery		bulb		source	Where son	nethin	g comes from	
\square		buzzer		C	cell		motor		voltage	The force of	of an e	electric current is measured in volts.	
		resistor			witch		switch on		Famous Scientists				
			o	- off						Thomas Edison ·	homas Edison – (1847 – 1931) Inventor of the fuse.		
Working Scientifically Skills													
? ?		g Scientific kno tions.	owledge to ask	Planning different types of enquiry, controlling variable						Benjamin Franklin (1706-1790) Showed that lightning is caused by electricity .			
		g scientific lan ⁄ conclusions.	iguage to			necessary.	a rongat			Charles Augestine Coulomb (1736-1806) He invented instruments for measuring the forces between magnets ar between charges. The unit for measuring an amount of		ring the forces between magnets and	
Recognising when to use other sources to answer questions and separating opinion from fact.					Recording data, taking repeat measurements where necessary and calculating a mean.				electricity is named after him. One Coulomb is the amount of electricity that flows past any point when a current of one amp flows for one second.				