Welholme Academy							
Topic: Making Christmas MagicalYear: 6							
Subject Specific Vocabulary			Electrical symbols			symbols	Sticky Knowledge
Conductor	Some materials let electri	city		Component Symbol Purpose about		about Electricity	
	pass through them easily. These materi- als are known as electrical conductors.		Cell (Cell (Battery)	$\neg \vdash$	Provides electrical energy	Electricity travels at the speed of light. That's more than 186,000 miles per
Cells	An electrical cell is a de	vice that is y, or one that reac- g electricity.		Power supply	-0 0-	Alternative to using cells	second! . Electricity comes from the power sta- tion, the wind, the sun, water and even an animal's poo! Electricity is a type of energy that build up in one place (static), or flow from one place to another (current electricity). Coal is the biggest source of energy for producing electricity. Coal is
	used to generate electricit is used to make chemical			Wire	_	Allows current to travel	
	tions possible by applyin			Bulb/light	-&-	Converts electrical energy into heat and light	
				Motor	-M-	Converts electrical energy into movement energy	
Series circuit	A series circuit is one that than one resistor, but only through which the electricit flows.	ıt has more ly one path		Buzzer	P	Converts electrical energy into sound energy	
		icity (electrons)		Switch	-d'0	Allows circuit to be opened or closed	
Volts	Voltage is an electrical p tial difference, the differ	oten- ence in elec-	Im	Important facts to know by the end of		now by the end of	burned in furnaces that boils water and creates steam.
	tric potential between two	places.	• Know that the brightness of a		ightness of a	A popular way of generating electricity is through hydropower. This is a pro-	
Generator	A machine that converts to electricity.	energy in-	 Compare and give reasons for variations in how compo- nents function. Use recognised symbols when representing a simple circuit in a diagram. Construct simple series circuits. Be able to answer questions about what happens when they try different components, for exam- ple, switches, bulbs, buzzers and motors 				cess where electricity is made by water which spins turbines attached to gener- ators.
Fuses	These are safety devices. strip of wire that melts a electric circuit if it goes . level.	A fuse is a and breaks an over a safe					A bolt of lightning can measure up to 3,000,000 volts, and it lasts less than one second!
Thomas Edison	He was a great inventor up with a way of makin light bulb accessible for try and outside in the st	that came g the electric homes, indus- reets.					Electric fields work in a similar way to gravity. Whereas gravity always at- tracts, electric fields can either attract or repulse.