## Year 4: Electricity Knowledge Mat

Subject Specific Vocabulary		Conductors and Insulators			Important Knowledge
electricity	A form of energy used for lighting, heating, making sound and making machines work.		Conductors  Some materials let electricity pass through them easily. These are known as electrical conductors. Many metals are good electrical		<ul> <li>I can name common appliances that run on electricity.</li> <li>I know how to a simple series</li> </ul>
electrical circuit	This consists of a cell or battery connected to a component using wires. It needs to be a complete circuit to work.		conductors, such as iron, copper and steel.	-	electrical circuit, identifying and naming its basic parts: cells, wires, bulbs, switches and buzzers.
cell	A cell is a single unit of electrical energy.		Insulators		will light in a simple series circuit.  I know that a switch opens and
battery	A battery is a collection of cells.		Some materials do not allow electricity to pass through them. They are known as insulators. Plastic, wood, rubber and glass are good electrical insulators.		closes a circuit.  I know some common conductors and insulators.  I know that metals are good
electrical component	A part that combines with others to form a circuit. E.g. bulb, motor, buzzer.		electrical insulators.		conductors.  Working Scientifically  I can sort devices to show
switch	Can be added to a circuit to turn a component on or off. It allows the electricity to flow or it stops it.	Bu	b Cell Sw	itch	which are run on electricity and which do not.  I can work with a group to
conductor	Material that allows electricity to pass through.		Cell		suggest questions that can be investigated further.  I can use of a range of criteria for grouping, sorting and
insulator	Material that does not allow electricity to pass through.			1	classifying and can explain how my ideas link scientifically.  I can record my observations, data and results using clear
electrical appliance	A machine or device that runs on electricity.				scientific vocabulary and symbols in tables.
motor	A device that uses electricity or fuel to produce movement.				