Faringdon Infant School Medium Term Planning – Year 1
Topic – Electricity
Subject – Science

	Learning Objectives	Main Activities	ICT Activities	S&L Opportunities
SC4 1a 1b 1c SC1 2a 2b 2c 2e 2f 2g 2h 2i 2j	To know that everyday appliances use electricity To create a simple series circuit involving batteries, wires, bulbs and other components like motors and buzzers. To use a switch to break a circuit. Ask questions and decide how to find the answers. Use first hand experience to answer questions. Think about what might happen before deciding what to do. Follow instructions to control risks. Explore using the senses. Communicate what happened using ICT. Identify associations or patterns. Compare what happened with expectations. Review work and explain it to others.	Identify and collect things that use electricity from around the school. Create a collage of electrical items from magazines. Sort items into mains / battery powered (MA to sort according to give out light / heat / sounds / move) In a kitchen draw all the items that use electricity. Where does mains electricity come from? (Nuffield big book & websites) *link history, invention of electricity.* Identify the dangers of electricity in the home and how to be safe. (cats eyes video) *Link ICT databases.* Discuss the importance of saving electricity. Create a leaflet / poster to remind people to turn off lights etc.	www.primary resources.co.uk/science (pdf files download) www.crucial-crew.org/**electricity** www.electrical**safety** council.org.uk/ www.eon-uk.com/distribution/369.aspx	In small groups discuss safety with electricity and make a mini presentation to the class to tell them the safety rules for electricity. Link ICT!
		Challenge - Make a simple circuit to make a bulb light up using battery, wires, bulb and crocodile clips. Create a human circuit where the children are the electrons moving from the battery to the bulb and back again in a loop. Complete a circuit drawing – add wires to connect the battery and bulb to make the bulb light / the motor work. Mend the circuit – why won't the buzzer buzz? What have I done wrong – children to fix! *(ICT database)*	Education city-science- electricity & Electricity (Science CR-Rom) ICT – design a circuit to make a bulb light.	Explain to a partner what is wrong with each circuit, why it won't work and how to fix it.
		Investigate – put together a circuit for group lighthouse (made in DT). It must have a light and an on/off switch. It could have a buzzer or motor also. Present lighthouse to class (PMI) Class to evaluate which are more successful and give reasons why. Investigate how make the light brighter (more batteries /bulbs. List order of bulb brightness) Complete Assessment.	www.bbc.co.uk/schools/sciencecliips	CI – play buzzer games e.g. operation or electronic wire buzzer fair games. Explain how to be successful at these games.