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| Subject: Science Year: Phase 1 - Year B Electricity  NC/PoS:  Unit designed to introduce children to energy (electricity, light, sound, and forces) before studying national curriculum units in LKS2 |
| Prior Learning (what pupils already know and can do)  Children know that they can switch some things on/off. Know that a toy car is pushed to make it move. Know different animals make different sounds. Know lights are switched on and off in the house, school and outside. |
| End Goals (what pupils MUST know and remember)   * Know examples of common appliances that run on mains electricity are television, fridge/freezer, microwave, washing machine, lights * Know that everyday appliances use electricity; these include things that light up, heat up, produce sound, or move * Know examples of objects that use batteries are torches, mobile phones, calculators * Know how to switch appliances on and off safely. Know safety around plugs e.g. no metal knives in toasters, no et hands when near electrics. |
| Key Vocabulary: Electricity, battery, mains electricity, movement, light, heat, sound, appliance, socket, electrocute, dangers, safety |
| Session 1: review prior learning  Know examples of common appliances that run on mains electricity are television, fridge/freezer, microwave, washing machine, lights  Know examples of objects that use batteries are torches, mobile phones, calculators  Suggested activities:  Explore the classroom and identify appliances which use mains electricity and those which use batteries.  Visit other parts of the school, identifying other electrical appliances, plug sockets and lights.  Help children to make a record of all the appliances identified, together with their use.  Watch <https://www.youtube.com/watch?v=oR_rrEkiAy8> introduction to electricity  Vocabulary: electricity, appliance, battery, mains electricity, socket, |
| Session 2: Recap: Name some appliances that use mains electricity or batteries  Know that everyday appliances use electricity; these include things that light up, heat up, produce sound, or move  Suggested activities:  Watch <https://www.youtube.com/watch?v=oR_rrEkiAy8> using electricity  Sort pictures of different objects that use electricity into things that light up, heat up, produce sound, or move  Walk around school looking at things that use electricity. What does the electricity make the appliance do?  Vocabulary: movement, light, heat, sound |
| Session 3: Recap: Name some appliances that use mains electricity or batteries. Recap the outcome of using electricity sound, heat, light.  Know that everyday appliances use electricity; know that we need to stay safe around electricity. Children to discuss what could happen when using electricity and how electricity can cause fires, electrocute etc.  Suggested activities:  [How to be safe around electricity - BBC Bitesize](https://www.bbc.co.uk/bitesize/articles/z9gk4xs#zv8yydm) children to create their own posters to display around school on how to stay safe when using electricity.  Vocabulary: danger, safety, appliance, electrocute |
| Link to career scientist:  Electrician, |
| Scientists who have helped develop understanding in this field: |