**Week One**

Our science theme for the next two weeks will focus on exploring electricity. Some tasks will take longer than others, so feel free to complete these over several days if needs be. You may do these in any order that you wish, and present your work in a way that suits you- be creative!

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| What are the dangers of electricity?Use the resources below and your own research to find out about the dangers of electricity:* <http://www.switchedonkids.org.uk/electrical-safety-in-your-home>
* <https://www.bbc.co.uk/bitesize/clips/zyxd7ty>

**Task:** ***Create a safety poster/ video highlighting the dangers of electricity.***  | How do we use electricity in our home?Electricity is central to modern day life. 150 years ago, people lived without any electricity. Do you think you could manage without electricity for a day?**Task:** ***Complete a ‘log’ to track how you use electricity in a day e.g. switched on lights, played xbox. Now decide whether each use was essential or not.*** ***There is an ‘essential and non-essential uses of electricity’ sheet attached that you could use****.* | Electricity inventorsUse the resources below and your own research to find out about two pioneers in electricity. **Thomas Edison:*** <https://www.ducksters.com/biography/thomas_edison.php>
* <https://www.youtube.com/watch?v=KgSi_R1Wcyk>

**Benjamin Franklin:** * <https://kids.kiddle.co/Benjamin_Franklin>
* <https://www.youtube.com/watch?v=nOF0OCI1xIc>

**Task:** ***Choose one of the inventors and create a fact file/ biography about their life and inventions.***  |
| Electrical circuitsWatch the video below to find out about electrical circuits. * <https://www.youtube.com/watch?time_continue=3&v=KYKVf6edvcA&feature=emb_logo>

**Task: Put your knowledge to the test and see if you can match the symbols to the names!****The quiz is attached at the end of this document** | Design your own electrical circuitDraw each of these circuits using the scientific symbols for each component:1. A circuit with a bulb, a cell and an open switch
2. A circuit with a battery and two motors
3. A circuit with a buzzer, two batteries and a closed switch
4. Design your own!
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