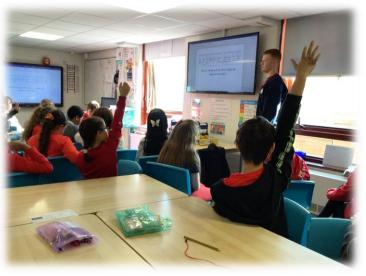
Year & Leopards Spring Term Enquiry Question 2024



What is voltage and how does it affect the brightness of a bulb?



Our electricity topic started with a visit from Curtis who is an apprentice electrician. He talked to us about what being an electrician involves, how he has moved through different stages

in his apprenticeship and why being safe around electricity is important. He also introduced us to the concept of 'voltage'.

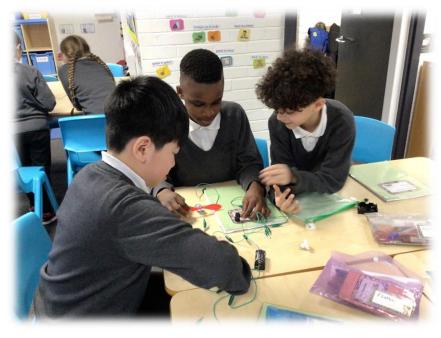


Miss Cameron then asked the question- "What is voltage?" We used iPads, science dictionaries and non-fiction books to begin gathering our ideas and research and coming up with an answer.



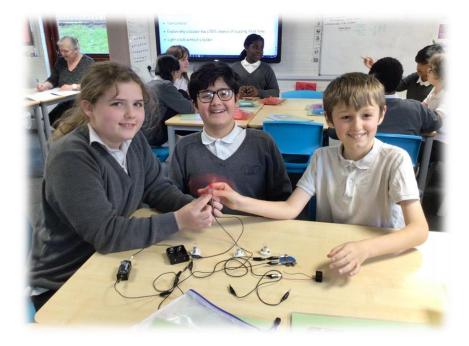






We enjoyed trying to complete different practical challenges such as getting a bulb to light up or making a motor spin in different directions!

After carrying out some research, we worked in groups of three to learn about the different components in an electrical circuit.



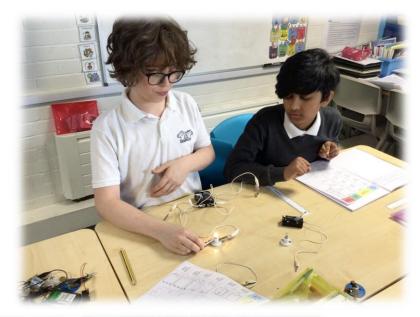


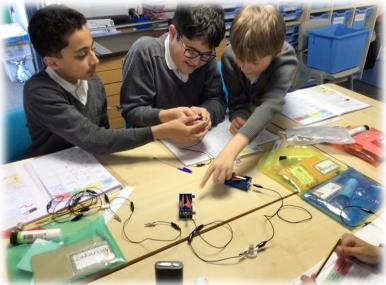
We continued researching and found out about Alessandro Volta, a famous scientist who invented the first battery.

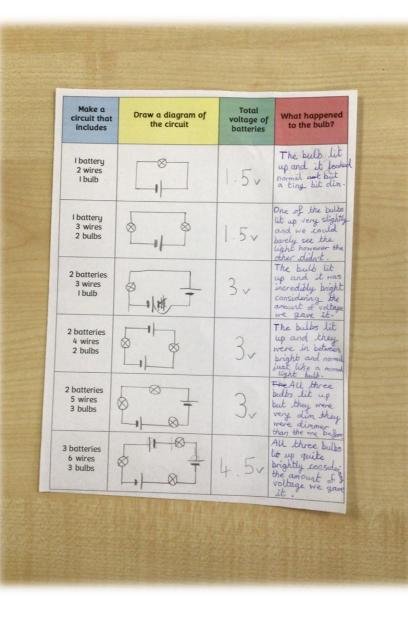
We continued working in our groups of three to start producing a poster about voltage and our findings so far.



We were then set the challenge to investigate how voltage affects the brightness of a bulb in a circuit. We used different batteries ranging from 1.5V to 9v. We also learned that the larger batteries don't necessarily have the most voltage.







We recorded our results from our investigation and drew conclusions. We noticed that the larger the voltage, the brighter the bulb. However, if the bulb has more voltage than it can take then the filament will get too

hot and the bulb will blow.



We collated all our research and finished our posters in our groups. We then presented our ideas and new-found knowledge to the rest of the class. We used Voice 21 strategies to ensure we were speaking clearly and were able to question each other and challenge ideas and thinking.



