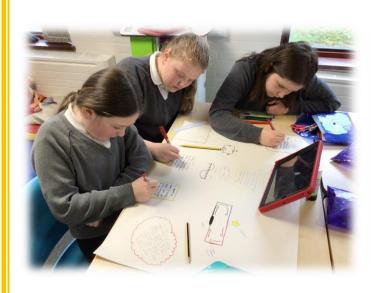
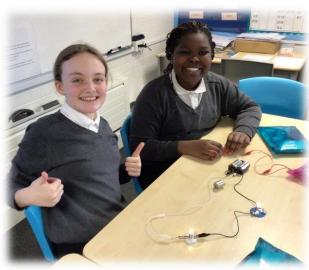
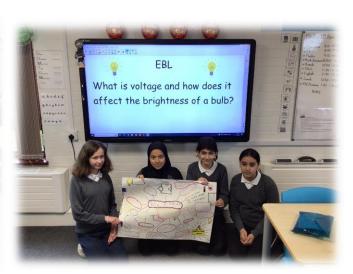
Year & Leopards Spring Term Enquiry Question 2023

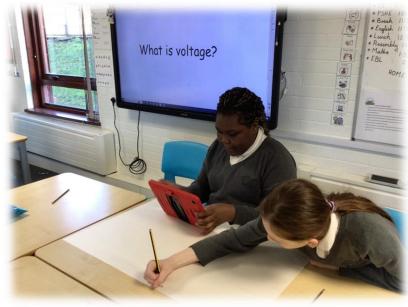






What is voltage and how does it affect the brightness of a bulb?

Miss Cameron 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.









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

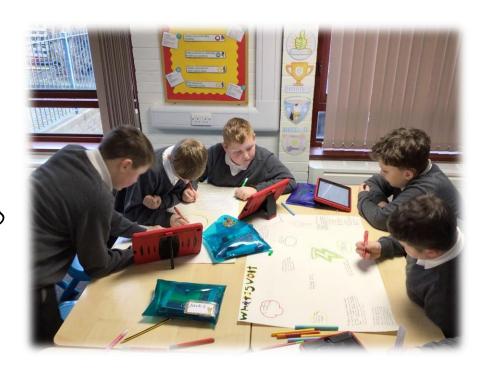
We enjoyed trying to complete different practical challenges such as getting a bulb to light up or making a motor spin in different directions!



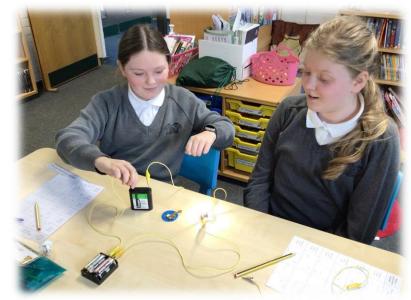


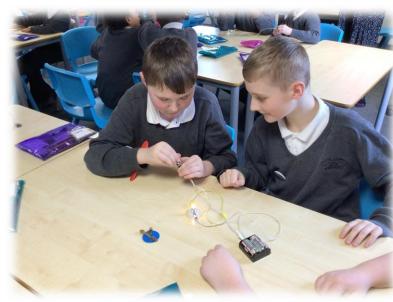
We continued working in our groups of three to start producing a poster about voltage and our findings so far.

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



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.

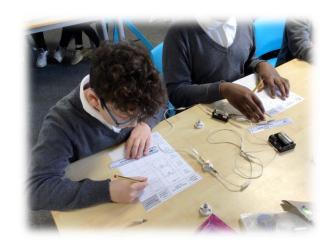




Make a circuit that includes	Draw a diagram of the circuit	Total voltage of batteries	What happened to the bulb?
1 battery 2 wires 1 bulb	+	1.5~	The bulb was very dim when we attached the
1 battery 3 wires 2 bulbs		1.5~	The 2 bulbs were very dim and after a while it turned very dim and off.
2 batteries 3 wires 1 bulb		3~	The bulb was very bright that the electricity humany eyes.
2 batteries 4 wires 2 bulbs	⊗	3~	The bulbs are quite ains and work that ages
2 batteries 5 wires 3 bulbs		3~	on gor a bis a then is turned
3 batteries 6 wires 3 bulbs	TIVE	4.6 V	the bulb no really bright has very agge and its blew o

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.

