



Halesowen C of E Primary School

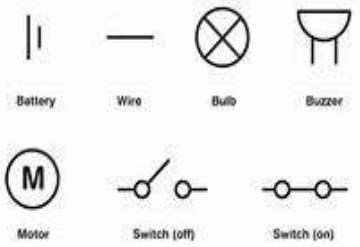
Home Learning

DATE: 4th -7th May

YEAR GROUP: 6

SCIENCE FOCUS WEEK


THEME: Electricity

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
QUESTION	Can I live without electrical appliances?	Are wires, bulbs and batteries what electricity is all about?	Do I need wires, bulbs and batteries to create a circuit?	Can I make a quiz to show what I have learnt?
ACTIVITIES	<p>According to a recent survey: Children are spending an average of 23 hours a week on smartphones and other gadgets.</p> <p>Try and not use any electrical devices for one day or half a day if that is too hard!</p> <p>Throughout the day make notes what you did to pass the time and your feelings and views.</p> <p>TASK- Write a diary entry about your experiences.</p> <p>Once you have written your diary entry (after not using electrical devices for morning/afternoon)</p> <p>Reflect on these questions:</p>	<p>The term 'electricity' is derived from a term used by William Gilbert in 1600 to describe static electricity.</p> <p>You will need a balloon for this experiment.</p> <p>Investigate static electricity using balloons. Rub the balloon on different surfaces (carpet, duvet, clothes) and test by seeing how well your hair stands!</p> <p>If you haven't got a balloon you can watch this experiment here: https://www.youtube.com/watch?v=wxAgdiYJjp0</p> <p>Which surface stimulated the most electrical charge, and made</p>	<p>Resources to support- https://www.bbc.co.uk/bitesize/topics/zq99q6f/articles/zs7g4j6</p>  <p>TASK 1- Create a series and parallel circuit (both open and closed) using sweets.</p> <p>Try and use sweets that closely resemble part of a circuit. Example strawberry</p>	<p>Complete this quiz: https://www.educationquizzes.com/ks2/science/electrical-circuits/</p> <p>Resources to support- https://www.bbc.co.uk/bitesize/topics/zq99q6f/articles/zt8vg82</p> <p>Now you have learnt all about electricity this week, create a quiz all about electricity. You could even go on Kahoot and set it up for other people to have a go at. (Ask your parents to help you set up an account. Make sure you stay safe on the internet!)</p>



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	<p>Were there any objects that you could/couldn't avoid? Why?</p> <p>How can electrical devices affect your interaction with family, friends and community? What are the positives and negatives?</p> <p>Extension- Which of your items use or could use renewable or non-renewable electricity?</p>	<p>you hair stand up more? Recording your findings!</p> <p>Task 2-</p> <p>Our world is changing, and we are finding new ways to keep our world going round in terms generating electricity.</p> <p>Find out ways that electricity can be generated: Wind Solar Hydro</p> <p>Create a poster including key facts and images related to each one you have researched.</p> <p>Task 3- Think about how you can change the way you use energy at home, be more eco-friendly, reduce your carbon footprint.</p>	<p>laces for wires and different sweets to represent other components (see image below as an example).</p>  <p>If you don't have sweets you could use other household objects.</p> <p>Make 5 different circuits.</p> <p>TASK 2- Now you've sweetened up your knowledge on circuits!!! complete task two.</p> <p>Create a circuit using symbols given above.</p> <p>Draw and cut out symbols and create series and parallel</p>	<p>You can ask questions about how much appliances cost to run. Or how a circuit works.</p> <p>Test it out on your family. Can they get them all right?</p>
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For example – you could turn off the lights when you aren't in a room.

You could present your reflections as an expressive dance to show the impact of their carbon footprint, a song or a rap.

Or you could go on to see how much each application costs to run. Check this out on this online activity:

<https://www.bbc.co.uk/teach/terrific-scientific/KS2/z6k2f4j>

You could create an interview become a reporter for the day and ask people about their attitudes to energy.

circuits. Be creative with the wire! (maybe you can use different coloured paper or colour plain paper to make your circuit stand out)

(Please note Friday would have been a bank holiday in school for VE Day so there is no learning scheduled for then- please see the website later this week for some VE day activities you can do together as a family should you want to)