



Hapton CE Methodist Primary School - Year 4 Autumn 2 Knowledge Organiser

Design & Technology - Electrical Circuit Poster

I will lift up my eyes to the hills, where does my help come from? My help comes from the Lord, the maker of heaven and earth."

Psalm 121 v 1-2

<p style="text-align: center;">What should I know ...</p> <ul style="list-style-type: none"> How to use pictures and words to explain and develop their designs How to develop more than one idea making different choices of materials How to construct a model using Lego or other construction equipment How to create a stable structure How to evaluate my own and others' work 	<p style="text-align: center;">I will be taught facts on...</p> <ul style="list-style-type: none"> What an electrical circuit is and that one is used in the design of a doorbell What the components of a simple electrical circuit are Why creating prototypes is an essential part of the design process The rules for working with electricity safely <div style="text-align: center;">  </div>	<p style="text-align: center;">Key Questions ...</p> <ul style="list-style-type: none"> Is the product appropriate for the intended user? Does the product fulfil its purpose? Is it functional? Does it have aesthetic appeal? How does the electrical system function? What electrical components are used? 												
<p style="text-align: center;">Key Vocabulary and Definition...</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Electrical</td> <td>Having to do with electricity; electric.</td> </tr> <tr> <td>Component</td> <td>A part of something</td> </tr> <tr> <td>Prototype</td> <td>An original model on which later stages or forms are based or developed.</td> </tr> <tr> <td>Circuit</td> <td>The closed path followed by an electric current.</td> </tr> <tr> <td>Cell</td> <td>A device that makes electricity by chemical means</td> </tr> <tr> <td>Switch</td> <td>A device that opens and closes an electrical circuit</td> </tr> </table>	Electrical	Having to do with electricity; electric.	Component	A part of something	Prototype	An original model on which later stages or forms are based or developed.	Circuit	The closed path followed by an electric current.	Cell	A device that makes electricity by chemical means	Switch	A device that opens and closes an electrical circuit	<p style="text-align: center;">Key skills...</p> <ul style="list-style-type: none"> To analyse existing products and understand how they are made Plan a sequence of actions to make a product To use prototypes to develop and share ideas To decide which design idea to develop To use electrical systems such as switches, bulbs and buzzers To use ICT to control products To use appropriate finishing techniques To consider and explain how the finished product could be improved 	<p style="text-align: center;">Web links ...</p> <p style="text-align: center;"> https://www.bbc.co.uk/bitesize/clips/zj4yqk7 https://www.bbc.co.uk/bitesize/clips/z28b4wx </p> <div style="text-align: center;">  </div>
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