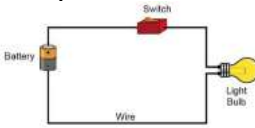




Subject: DT	Year group: 4 Term: Summer	Title: Electrical systems - Torches													
What should I already know? • How to use pictures and words to explain and develop their designs. • How to develop more than one idea making different choices of materials. • How to create a stable structure. • How to evaluate my own and others’ work. 	Facts I will learn • What an electrical circuit is and that one is used in the design of a torch. • What the components of a simple electrical circuit are. • The rules for working with electricity safely. 	Key questions • Is the product appropriate for the intended user? • Does the product fulfil its purpose? • Is it functional? • How does the electrical system function? • What electrical components are used? • Could this be improved? 													
Key Skills • To identify electrical products. • 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 appropriate finishing techniques. • To consider and explain how the finished product could be improved.	Experiences that school will provide Investigating how to make a circuit using a variety of equipment. Exploring and analysing products.	<table><tr><th>Key vocab</th><th>Definition</th></tr><tr><td>Electrical</td><td>Having to do with electricity; electric.</td></tr><tr><td>Component</td><td>A part of something.</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>		Key vocab	Definition	Electrical	Having to do with electricity; electric.	Component	A part of something.	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.
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Web links https://www.bbc.co.uk/bitesize/topics/z2882hv/articles/zcwnv9q (What is electricity) https://www.bbc.co.uk/bitesize/topics/z2882hv/articles/zxv482p (What are conductors and insulators) https://www.bbc.co.uk/bitesize/topics/zq99q6f/articles/zt8vg82 (How can you change a circuit)	Experiences that could be provided at home Identify items in the home that use electricity. Talk about how electrical items at home work.	<table><tr><td>Conductor</td><td>A material or object that permits an electric current to flow easily.</td></tr><tr><td colspan="2"></td></tr></table>	Conductor	A material or object that permits an electric current to flow easily.		
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