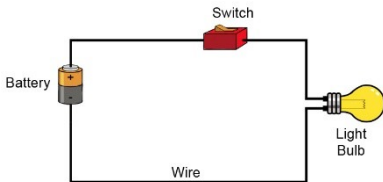




Subject: DT	Year group: 4 Term: Autumn 1	Title: Sparks might fly!
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What should I know? - How to use pictures and words to explain and develop their designs - How to develop more than one idea making different choices of materials - How to construct a model using Lego or other construction equipment - 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 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 	Key questions ... - 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? 						
Key Skills... - 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		<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></table>	Key vocab	Definition	Electrical	Having to do with electricity; electric.	Component	A part of something.
Key vocab	Definition							
Electrical	Having to do with electricity; electric.							
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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 	Experiences that school may provide: • Take part in a Lego building workshop 	
Web links https://www.bbc.co.uk/bitesize/clips/zj4ygk7 https://www.bbc.co.uk/bitesize/clips/z28b4wx	Experiences that could be provided at home... • Identify items in the home that use electricity • Talk about how electrical items at home work	