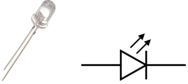











## Year 7 Night Light Project

1	<b>Design Brief</b>	An overview of what you intend to do when completing your project.	11	 <p><b>LED</b></p>	Light Emitting Diode: A semiconductor device that produces light from electricity
2	<b>Design Specification</b>	A list/criteria of things that you think your product must be/meet in order to be a great product.	12	 <p><b>Switch</b></p>	A switch is something that changes the flow of an electrical circuit.
3	<b>Moodboard</b>	A collection of images and words to help inspire design ideas.	13	 <p><b>Battery Pack</b></p>	A holder for batteries in an electronic circuit.
4	<b>Research</b>	The process of solving problems and finding facts in an organised way.	14	<p><b>Wire</b></p>	A long, thin and flexible piece of metal, used to carry electricity.
5	<b>Health &amp; Safety</b>	Procedures intended to prevent accidents or injury in workplaces.	15	 <p><b>Resistor</b></p>	Part of an electrical circuit that resists, or limits, the power of an electrical current in a circuit.
6	<b>Product Analysis</b>	Looking at a product in greater detail and then breaking it down to help us understand certain aspects of the product to help generate design ideas.	16	 <p><b>Soldering/Soldering Iron</b></p>	A process where you join two or more metals by melting a filler metal called solder into the joint where the metals meet.
7	<b>Aesthetics</b>	The look of the product.	17	 <p><b>Solder</b></p>	A metal or a mixture of metals (as of lead and tin) used when melted to join components in a circuit. .
8	<b>Client</b>	The person who the product has been made for or would like to purchase the product.	18	<p><b>Testing</b></p>	A process of measuring the properties or performance of products.
9	<b>Function</b>	The purpose of the product. It's job.	19	<p><b>Techsoft</b></p>	Computer drawing software used with the laser cutter.
10	<b>Materials</b>	What the product has been made from.	20	 <p><b>Laser cutting</b></p>	The use of a high-powered laser to cut, etch and engrave your material.

21	<b>Symbols</b>	Icons used to represent components in drawings of electronic circuits.	26	<b>Strip Heating/ Line Bending</b> 	a process used to bend thermoplastics in a straight line.
22	<b>Schematic Drawings</b> 	A drawing of an electronic drawing. Made up of symbols to allow manufacturers to follow easily.	27	<b>Malleable</b>	The ability of a material to deform without cracking.
23	<b>Component</b>	Individual parts that make up an electronic circuit.	28	<b>Jig</b>	A device used to hold a piece of material and guide cutting tools and they are used to ensure the process can be repeated accurately and to a high quality.
24	<b>Current</b>	The movement of electric charge.	29	<b>Glue Gun</b> 	A gun-shaped electric tool used for melting and applying sticks of adhesive.
25	<b>Circuit</b>	A complete path around which electricity can flow	30	<b>Evaluate</b>	To think reflectively about their work and make changes to their project that will improve it. An evaluation should include the project's aims, what went well, challenges, how they were dealt with and what you'd change next time.