

Year 9 Resistant Materials

USB Lamp Project	Knowledge, Skills, Understanding
Higher	<p>Can conduct independent detailed research for the project using 2-3 sources of information.</p> <p>Can identify a gaps in the market for the product.</p> <p>Able to recognise key needs for a variety of users.</p> <p>Develops ideas that are creative and unique</p> <p>Demonstrates high level skills in sketching and annotating design ideas</p> <p>Able to adapt plans to include control points and workshop constraints</p> <p>Able to use a wide range of tools and equipment independently and safely</p> <p>Can reflect on own experiences and suggest improvements for own work using feedback</p> <p>Can use a range of keywords and technical language to describe ideas and developments</p> <p>Demonstrate an understanding of costing and profit within the design.</p>
Intermediate	<p>Can identify key features of designs.</p> <p>Can conduct teacher guided research into lamps using 1-2 sources of information giving examples.</p> <p>Can list the need of the user.</p> <p>Can explain choices of materials and techniques</p> <p>Are/am able to use simple sketches and models to show ideas</p> <p>Are/am able to annotate ideas to highlight key points</p> <p>Are/am able to watch a demonstration on a machine/hand tool and use it correctly in class.</p> <p>Can create a logical plan of making.</p> <p>Can select an appropriate range of tools and techniques demonstrating complexity.</p> <p>Can suggest and act of prior experiences to evaluate positives and negatives of the work.</p> <p>Ideas show clear communication and are effective in delivery.</p> <p>Demonstration of accuracy through marking and measuring</p>
Foundation	<p>Can create a themed image board for the project and conduct basic internet research with help</p> <p>Can list key features of a good design</p> <p>Able to identify the user and material type required to meet the needs</p> <p>Are/am able to use basic sketching techniques to show ideas.</p> <p>Are/am able to add notes to explain the design.</p> <p>Able to state the type of material that could be used in the design.</p> <p>Can choose appropriate tools and equipment.</p> <p>Can use a range of tools with confidence.</p> <p>Can produce plans with decision boxes</p> <p>Can identify areas that need improving in the practical work.</p> <p>State a personal opinion on the product.</p> <p>Define the making process.</p> <p>Can use some keywords in a sentence that form structure</p> <p>Are/am able to use a ruler to measure.</p>

NB: direct command = knowledge, 'can'= understanding, 'able to'=skills