



**Year 9**

<b>Project</b>	<b>Knowledge</b>	<b>Skills</b>
<b>Phone Stands</b>  <b>Material area:</b> <b>Timbers</b>	Know the performance characteristics of materials, components and manufacturing processes of timbers	Be able to work safely to produce a phone stand, using the correct tools, processes and equipment.
<b>Cardboard Chairs</b>  <b>Material area:</b> <b>Paper and board</b>	Know properties, characteristics, applications, advantages and disadvantages of: Paper Boards  Know the performance characteristics of materials, components and manufacturing processes of different papers and boards.  Know a range of communication techniques and media to present design ideas.  Know the production systems used in the material area.	Show selection of appropriate materials, components and processes in your work.  Be able to work safely to produce a pop up card, using the correct tools and equipment.  Develop and use a range of communication techniques and media to present design ideas.  Show the selection of appropriate production systems in your work.
<b>Light Box Project</b>  <b>Material area:</b> <b>Timbers and Electronics</b>	Know properties, characteristics, applications, advantages and disadvantages of: Natural and Man-made timbers  Know the performance characteristics of materials, components and manufacturing processes for Timbers.  Know and understand the process of PCB assembly and electronic circuits.	Show selection of appropriate materials, components and processes in your light box  Be able to work safely to produce a clock, using the correct tools and equipment.  Use a range of communication techniques and media to present design ideas.
<b>Multi-tool</b>  <b>Material area:</b> <b>Metals</b>	Know properties, characteristics, applications, advantages and disadvantages of: Ferrous metals Non-ferrous metals  Know the performance characteristics of materials, components and manufacturing processes when working with metals.	Show selection of appropriate materials, components and processes for working with metals.  Work safely within the workshop, showing the correct selection of tools, to create a quality product.