

**Year 7 Product Design Assessments**

End of year target :.....

Project Title and Work piece		<u>Beginning</u>	<u>Developing</u>	<u>Secure</u>	<u>Embedding</u>	<u>Extending</u>	<u>Excelling</u>	
<b>Product Design</b>	Roller ball	Designs	<input type="checkbox"/> Initial ideas all look very similar <input type="checkbox"/> The target customer has not been considered <input type="checkbox"/> No annotation	<input type="checkbox"/> Not much variety between design ideas <input type="checkbox"/> The target customer has been considered for one of the ideas. <input type="checkbox"/> Some notes made without much detail	<input type="checkbox"/> At least two of the designs ideas have been annotated. <input type="checkbox"/> Designs are rendered <input type="checkbox"/> Dimensions have been considered	<input type="checkbox"/> The target customer has been taken into account for at least two of the design ideas <input type="checkbox"/> Materials have been considered.	<input type="checkbox"/> Some differences can be noted between the design ideas <input type="checkbox"/> Some of the design have been annotated with detail	<input type="checkbox"/> A range of design ideas presented <input type="checkbox"/> The target customer has been taken into account for most of the design ideas <input type="checkbox"/> All designs have been clearly annotated with excellent attention to detail.
		Make	<input type="checkbox"/> Use tools and equipment with some care. <input type="checkbox"/> Pay more attention to <u>finish</u> .	<input type="checkbox"/> Used a range of tools, with some accuracy. <input type="checkbox"/> Maze walls (suitable and smooth finish)	<input type="checkbox"/> Used a range of tools, with precision. <input type="checkbox"/> Professional finish (use of disc sander and glass paper)	<input type="checkbox"/> Used a range of tools, materials, and processes, showing you understand their characteristics.	<input type="checkbox"/> Worked with a range of tools, materials, and processes, showing you have full understanding of their characteristics and uses. <input type="checkbox"/> Brass screws (screwed by student and countersunk appropriately)	<input type="checkbox"/> incorporated a range of tools, materials, and processes, demonstrating you have excellent understanding of their characteristics and uses.
	Pop up card	Make	<input type="checkbox"/> Use tools and equipment with some care. <input type="checkbox"/> Pay more attention to <u>finish</u> .	<input type="checkbox"/> Used a range of tools, with some accuracy. <input type="checkbox"/> Symbols used correctly	<input type="checkbox"/> Used a range of tools, with precision. <input type="checkbox"/> Creative idea <input type="checkbox"/> Professional finish – printed images and symbols	<input type="checkbox"/> Used a range of tools, materials, and processes, showing you understand their characteristics. <input type="checkbox"/> Quality front cover <input type="checkbox"/> Quality back cover	<input type="checkbox"/> Worked with a range of tools, materials, and processes, showing you have full understanding of their characteristics and uses. <input type="checkbox"/> Quality pop up mechanism	<input type="checkbox"/> incorporated a range of tools, materials, and processes, demonstrating you have excellent understanding of their characteristics and uses.
	Smart materials	Make	<input type="checkbox"/> Use tools and equipment with some care. <input type="checkbox"/> Pay more attention to <u>finish</u> .	<input type="checkbox"/> Used a range of tools, with some accuracy. <input type="checkbox"/> Original Polymorph design	<input type="checkbox"/> Used a range of tools, with precision. <input type="checkbox"/> Creative Polymorph shape <input type="checkbox"/> Creative loom band pattern	<input type="checkbox"/> Used a range of tools, materials, and processes, showing you understand their characteristics. <input type="checkbox"/> Effective loom band technique	<input type="checkbox"/> Worked with a range of tools, materials, and processes, showing you have full understanding of their characteristics and uses. <input type="checkbox"/> Photochromic pigment applied safely and skilfully	<input type="checkbox"/> incorporated a range of tools, materials, and processes, demonstrating you have excellent understanding of their characteristics and uses.
	Biscuit cutter	Make	<input type="checkbox"/> Use tools and equipment with some care. <input type="checkbox"/> Pay more attention to <u>finish</u> .	<input type="checkbox"/> Used a range of tools, with some accuracy. <input type="checkbox"/> Creative cutter shape	<input type="checkbox"/> Used a range of tools, with precision. <input type="checkbox"/> Quality and Accuracy of Moulding	<input type="checkbox"/> Used a range of tools, materials, and processes, showing you understand their characteristics. <input type="checkbox"/> Quality of joining	<input type="checkbox"/> Worked with a range of tools, materials, and processes, showing you have full understanding of their characteristics and uses. <input type="checkbox"/> Quality of Edge Finish	<input type="checkbox"/> incorporated a range of tools, materials, and processes, demonstrating you have excellent understanding of their characteristics and uses. <input type="checkbox"/> Quality of Cutter (from dough testing)
	Food Technology	Fruity muffins	<input type="checkbox"/> Product well made <input type="checkbox"/> Make met the plan <input type="checkbox"/> Able to adapt and alter the dish whilst cooking to overcome basic technical issues.	<input type="checkbox"/> The dish was completed with only a few variations from the planned outcome. <input type="checkbox"/> Able to apply knowledge and understanding of ingredients in making the dish.	<input type="checkbox"/> Able to select and use a variety of equipment, including electrical equipment, safely. <input type="checkbox"/> Able to use initiative and solved any problems that occurred whilst cooking.	<input type="checkbox"/> Able to talk confidently about the possible problems that may occur in preparing the dish and how you could alter the preparation to avoid these.	<input type="checkbox"/> Able to display a wide range of different culinary techniques and skills in cooking and preparing the dish. <input type="checkbox"/> Use of quality control checks to create a dish with a good quality finish. <input type="checkbox"/> Able to select and use a range of equipment including electrical equipment safely without teacher input.	<input type="checkbox"/> Able to prepare and cook the dish safely without any need for teacher input or supervision/comment and can talk confidently about the different hygiene and safety issues the dish presents.

**Year 8 Product Design Assessments**

End of year target :.....

Project Title and Work piece			<u>Beginning</u>	<u>Developing</u>	<u>Secure</u>	<u>Embedding</u>	<u>Extending</u>	<u>Excelling</u>
<b>Product Design</b>	Container	Designs	<input type="checkbox"/> Initial ideas all look very similar <input type="checkbox"/> The target customer has not been considered <input type="checkbox"/> Little annotation	<input type="checkbox"/> Not much variety between design ideas <input type="checkbox"/> The target customer has been considered for one of the ideas. <input type="checkbox"/> Some notes made without much detail	<input type="checkbox"/> The target customer has been taken into account for at least two of the design ideas <input type="checkbox"/> At least two of the designs ideas have been annotated.	<input type="checkbox"/> Some differences can be noted between the design ideas <input type="checkbox"/> Some of the design have been annotated with detail <input type="checkbox"/> Designs are rendered <input type="checkbox"/> Dimensions have been considered	<input type="checkbox"/> A range of design ideas presented <input type="checkbox"/> The target customer has been taken into account for most of the design ideas <input type="checkbox"/> All designs have been clearly annotated with excellent attention to detail. <input type="checkbox"/> Materials have been considered.	<input type="checkbox"/> A broad range of design ideas presented <input type="checkbox"/> The target customer has been taken into account for all design ideas. <input type="checkbox"/> Consumer feedback reflected upon
		Make	<input type="checkbox"/> Use tools and equipment with some accuracy. <input type="checkbox"/> Pay more attention to <u>finish</u> .	<input type="checkbox"/> Used a range of tools, with some precision. <input type="checkbox"/> Professional finish (use of disc sander/glass paper/ varnish/ bees wax)	<input type="checkbox"/> Used a range of tools, materials, and processes, showing you understand their characteristics. <input type="checkbox"/> Clasp and hinges (screwed by student and good spacing)	<input type="checkbox"/> Worked with a range of tools, materials, and processes, showing you have full understanding of their characteristics and uses.	<input type="checkbox"/> incorporated a range of tools, materials, and processes, demonstrating you have excellent understanding of their characteristics and uses. <input type="checkbox"/> Internal compartments (suitable and smooth finish)	<input type="checkbox"/> Able to discuss and demonstrate using subject terminology a range of tools, materials, and processes. <input type="checkbox"/> Able to critically reflect on manufacture
<b>Product Design Graphics</b>	Photoshop	Initial ideas	<input type="checkbox"/> Initial ideas all look very similar <input type="checkbox"/> The target customer has not been considered <input type="checkbox"/> Little annotation	<input type="checkbox"/> Not much variety between design ideas <input type="checkbox"/> The target customer has been considered for one of the ideas. <input type="checkbox"/> Some notes made without much detail	<input type="checkbox"/> The target customer has been taken into account for at least two of the design ideas <input type="checkbox"/> At least two of the designs ideas have been annotated.	<input type="checkbox"/> Some differences can be noted between the design ideas <input type="checkbox"/> Some of the design have been annotated with detail	<input type="checkbox"/> A range of design ideas presented <input type="checkbox"/> The target customer has been taken into account for most of the design ideas <input type="checkbox"/> All designs have been clearly annotated with excellent attention to detail.	<input type="checkbox"/> A broad range of design ideas presented <input type="checkbox"/> The target customer has been taken into account for all design ideas. <input type="checkbox"/> Consumer feedback reflected upon
		Final Idea	<input type="checkbox"/> No pixilation of image	<input type="checkbox"/> Consumer ratings presented <input type="checkbox"/> Content correct	<input type="checkbox"/> Correct symbols used <input type="checkbox"/> Theme specific language used	<input type="checkbox"/> Annotated tools used	<input type="checkbox"/> More than two manipulations on the image	<input type="checkbox"/> Multi tools used
<b>Food Technology</b>	Food	Rainbow salad practical	<input type="checkbox"/> Product well made <input type="checkbox"/> Make met the plan <input type="checkbox"/> Able to adapt and alter the dish whilst cooking to overcome basic technical issues.	<input type="checkbox"/> The dish was completed with only a few variations from the planned outcome. <input type="checkbox"/> Able to apply knowledge and understanding of ingredients in making the dish.	<input type="checkbox"/> Able to select and use a variety of equipment, including electrical equipment, safely. <input type="checkbox"/> Able to use initiative and solved any problems that occurred whilst cooking.	<input type="checkbox"/> Able to talk confidently about the possible problems that may occur in preparing the dish and how you could alter the preparation to avoid these.	<input type="checkbox"/> Able to display a wide range of different culinary techniques and skills in cooking and preparing the dish. <input type="checkbox"/> Use of quality control checks to create a dish with a good quality finish. <input type="checkbox"/> Able to select and use a range of equipment including electrical equipment safely without teacher input.	<input type="checkbox"/> Able to prepare and cook the dish safely without any need for teacher input or supervision/comment and can talk confidently about the different hygiene and safety issues the dish presents.
		Frittata design	<input type="checkbox"/> Presented some step by step instructions <input type="checkbox"/> Some correct language used	<input type="checkbox"/> Used clear age appropriate step by step instructions <input type="checkbox"/> Used some sketches	<input type="checkbox"/> Used descriptive language appropriate to Food Technology <input type="checkbox"/> Identified a range of key skills and techniques needed to create the dish.	<input type="checkbox"/> Explained how to solve any technical issues with making the dish.	<input type="checkbox"/> Given specific stages to look for when completing the task. <input type="checkbox"/> Plenty of appropriate diagrams used that aid the understanding of the process	<input type="checkbox"/> Identified specific and relevant equipment <input type="checkbox"/> Given detailed instructions for specific timings

**Year 9 Product Design Assessments**

End of year target :.....

Project Title and Work piece			Beginning	Developing	Secure	Embedding	Extending	Excelling
Product Design	Design Ventura	Product Pitch	<ul style="list-style-type: none"> <li><input type="checkbox"/> have a clear target audience</li> <li><input type="checkbox"/> developed an idea suitable for that target audience.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> designed a product suitable for the Design Museum Shop</li> <li><input type="checkbox"/> shown evidence of designerly thinking, creativity or innovation</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> presented their idea visually</li> <li><input type="checkbox"/> used a variety of communication (e.g. words, images, drawings, models)</li> <li><input type="checkbox"/> Identified appropriate materials for the idea</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> shown evidence of costing and budgeting the design idea</li> <li><input type="checkbox"/> produced an appealing idea based upon the theme</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> indicated how a profit will be made</li> <li><input type="checkbox"/> thought about how it will be manufactured</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> considered how the product will impact on the environment and how this can be minimised.</li> </ul>
	Wildlife	Specification	<ul style="list-style-type: none"> <li><input type="checkbox"/> inclusion of at least 4 different types of need (aesthetics, customer, <b>cost</b>, environment, safety, size, function and manufacturing)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> the limits of the project have been considered.</li> <li><input type="checkbox"/> The users' views about how the product should work or function have been mentioned briefly.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> investigation of the product cost, the manufacturing constraints and a basic explanation of why each need is important.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> inclusion of at least 7 different types of need. With an explanation of why each need is important with references to the features of similar products or other people's designs.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> inclusion of the needs of different groups of people who might be affected by the product.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Recognition of the different needs of a range of users, and search for trends and patterns in existing solutions, whilst developing fully realistic products.</li> </ul>
		Manufacture	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use tools and equipment with some accuracy.</li> <li><input type="checkbox"/> Consumer feedback has been gathered.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to use specific tools and materials, showing you understand their characteristics. Some inaccuracy with construction.</li> <li><input type="checkbox"/> Consumer testing and Consumer feedback considered</li> <li><input type="checkbox"/> Basic shape shown.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Used a range of tools and manufacturing processes with some precision.</li> <li><input type="checkbox"/> Professional finish (use of disc sander/glass paper/ varnish/ bees wax)</li> <li><input type="checkbox"/> Creative response shown</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Independent use of a range of tools, materials and processes.</li> <li><input type="checkbox"/> High level of creativity to the brief</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Excellent incorporation of a range of tools, materials, and processes and construction.</li> <li><input type="checkbox"/> A functional and commercially viable product.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Suggested ways forward/ areas for improvement</li> </ul>
Product Design Graphics	Portfolio	2 point perspective drawing	<ul style="list-style-type: none"> <li><input type="checkbox"/> Basic instructions presented.</li> <li><input type="checkbox"/> use of rendering</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Some explanation of steps</li> <li><input type="checkbox"/> Good use of rendering</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Good Two point perspective drawing technique presented</li> <li><input type="checkbox"/> steps Logically explained</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Excellent Two point perspective drawing presented.</li> <li><input type="checkbox"/> Exploring &amp; testing knowledge through the use of detailed steps</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use of tone/texture</li> <li><input type="checkbox"/> Able to indicate where you might go wrong</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Independently driving the drawing technique</li> <li><input type="checkbox"/> Suggested ways forward/ areas for improvement</li> </ul>
		Portfolio	<ul style="list-style-type: none"> <li><input type="checkbox"/> Final outcome is largely complete</li> <li><input type="checkbox"/> represents a basic level of making/ modelling /finishing skills</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Used materials, components and equipment correctly and safely (including CAM if appropriate)</li> <li><input type="checkbox"/> Some aspects of outcome are demanding</li> <li><input type="checkbox"/> Parts of outcome show high levels of demand</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Final outcome shows good level of making/modelling/finishing skills</li> <li><input type="checkbox"/> Used appropriate materials, components, equipment and processes correctly and safely (including CAM)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly and safely</li> <li><input type="checkbox"/> Outcome demonstrates a high level of demand</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Final outcome shows very good level of making/modelling/finishing skills</li> <li><input type="checkbox"/> Selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly, skilfully and safely</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Final outcome(s) shows a high level of making/modelling/finishing skills and accuracy</li> <li><input type="checkbox"/> Worked independently to produce a rigorous and demanding outcome</li> </ul>
Food Technology	Multicultural food	Stir fry evaluation	<ul style="list-style-type: none"> <li><input type="checkbox"/> New skills identified</li> <li><input type="checkbox"/> Photograph of final make presented</li> <li><input type="checkbox"/> Use of tools and equipment discussed</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use of tools and equipment reflected upon</li> <li><input type="checkbox"/> Presented consumer feedback</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Errors identified with suggestions for improvement</li> <li><input type="checkbox"/> Organisation discussed</li> <li><input type="checkbox"/> Presented a completed a star profile chart</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to talk confidently about the problems that occurred in preparing the dish</li> <li><input type="checkbox"/> Identified how to alter the preparation to avoid these.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use of quality control checks to create a dish with a good quality finish.</li> <li><input type="checkbox"/> Appearance discussed</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Portion sizes discussed</li> <li><input type="checkbox"/> Selection of ingredients reflected upon</li> </ul>
		Individual practical	<ul style="list-style-type: none"> <li><input type="checkbox"/> Product well made</li> <li><input type="checkbox"/> Make met the plan</li> <li><input type="checkbox"/> Able to adapt and alter the dish whilst cooking to overcome basic technical issues.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> The dish was completed with only a few variations from the planned outcome.</li> <li><input type="checkbox"/> Able to apply knowledge and understanding of ingredients in making the dish.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to select and use a variety of equipment, including electrical equipment, safely.</li> <li><input type="checkbox"/> Able to use initiative and solved any problems that occurred whilst cooking.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to talk confidently about the possible problems that may occur in preparing the dish and how you could alter the preparation to avoid these.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to display a wide range of different culinary techniques and skills in cooking and preparing the dish.</li> <li><input type="checkbox"/> Able to select and use a range of equipment including electrical equipment safely without teacher input.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Able to prepare and cook the dish safely without any need for teacher input or supervision/comment</li> <li><input type="checkbox"/> Can talk confidently about the different hygiene and safety issues the dish presents.</li> </ul>