

**The Hastings Academy: Grade Descriptors for use at Key Stage 3 – Design and Technology.**

Y7	Y8	Y9	<u>Assessment Objective</u> <b>RESEARCH</b>	<u>Assessment Objective</u> <b>IDEAS/DEVELOPMENT</b>	<u>Assessment Objective</u> <b>PLANNING</b>	<u>Assessment Objective</u> <b>MAKING</b>	<u>Assessment Objective</u> <b>EVALUATION</b>
		<b>Mastered</b>  Well Above Expectations	While carrying out a thorough product analysis I was able to apply a wide range of relevant technical vocabulary. I have demonstrated a keen interest on the different needs of users/consumers and was able to show how these might influence the design of products. I have used both primary and secondary research in order to produce a high quality outcome.	There is a clear connection between my earlier research work and the ideas I have developed. My ideas for my product improve on previous versions (iteration). I have synthesised external influences such as research information and the needs of potential users, into my ideas.	I can identify ways of adapting a product, then itemise in detail requirements to organise the making task. Including appropriate terminology and a wide range of Q.C. checks, for hygiene and safety. In my plans I have identified how to adapt my product to meet the specific needs of a target group. I can produce a risk assessment to identify how health and safety issues may need to be addressed	I can use more advanced tools and equipment (CAD/CAM) when manufacturing products. I have thoroughly demonstrated use of the correct materials to make a successful working project with a high quality finish. With real confidence & precision I demonstrated a high level of skill and competence in making my products.	My final design represents the views and interests of potential users. Detailed analysis of my findings against my design criteria, have enabled me to identify and suggest a range of solutions for further development/improvement. After a detailed evaluation and meticulous analysis I have developed my ideas effectively and fully met the needs of the brief.
	Well Above Expectations  <b>Mastered</b>	Above Expectations  <b>Extended</b>	I have provided excellent verbal responses which demonstrated a sound understanding of the needs of users and opinions on various key issues such as economic, environmental and sustainability. I have thoroughly analysed existing products as research and explained how this will influence my own idea. I can write a clear and detailed specification.	My final design idea represents some of the views and interests of potential users. After producing my design ideas I carefully consider the views of others before further development of my product takes place.	I can clearly describe a suitable target group for my product, then write a detailed plan accurately specifying requirements to organise making tasks which also includes a wide range of Q.C. checks, for hygiene and safety. My plans also include appropriate terminology such as processes.	I pay increasing focus on the quality of finish and precision of my final products. I can select the correct equipment and materials to realise a successful product. With confidence and accuracy I used the correct equipment, ingredients & processes to make a high quality product(s) finished to a pleasing standard.	I have made good use of specifications/ design criteria to identify how well I have met my brief. Evaluative comments about my product are informative and identify how the product can be further improved. I have explained the changes to my plan that were necessary in order to realise my final quality outcome. By analysing my research findings I have identified some solutions for further developments.

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Well Above Expectations	Above Expectations	Meeting Expectations	<p>I have been able to action a personal design task and communicate in brief how this will help me to develop a product.</p> <p>I have demonstrated using information gathered from looking at the form and function of existing products, to help me to generate my own ideas.</p> <p>I have communicated a clear understanding of users and their physical, intellectual, emotional and social needs. I have communicated a clear understanding of important design issues such as the environment and sustainability.</p>	<p>As well as presenting clear initial ideas I have made some accurate scaled card models that also show unique design features.</p> <p>My drawings and models consider issues such as function and appearance and meet many of my original product specifications.</p> <p>I have made a series of progressive models to help explore my design thinking. I can use C.A.D to help me develop my own design ideas.</p>	<p>My plans are detailed accurately describing most of the equipment and materials required to organise making tasks and also includes a wide range of Q.C. checks for hygiene and safety.</p> <p>My plans now also identify a suitable target group for the product I am making.</p> <p>I can identify any changes that have been necessary to improve and refine my making within the plan by using feedback built into the system.</p>	<p>I can use a variety of tools and equipment with sufficient accuracy.</p> <p>I use correct making processes and handle equipment more confidently to make neatly finished products.</p> <p>I demonstrate consideration in the presentation of my finished product. I can use C.A.M to make parts of my product.</p>	<p>I produced accurate star profiles/ ranking tests to <u>explain my findings</u>.</p> <p>I have used research information from ranking tests/ star profiles to identify some possible achievements and modifications.</p> <p>My achievements and modifications are now clearly justified using evidence from research.</p> <p>Once I have presented my design ideas I consider the views of others before further development of my product.</p>
			<p><b>Mastered</b></p>	<p><b>Extended</b></p>	<p><b>Secure</b></p>	<p><b>Assessment Objective RESEARCH</b></p>	<p><b>Assessment Objective IDEAS/DEVELOPMENT</b></p>
Y7	Y8	Y9					
Above Expectations	Meeting Expectations	Below Expectations	<p>I have used my research to write a specification that considers and demonstrates an understanding of ideas that can be categorised.</p> <p>I have demonstrated a good understanding of some key design issues such as the environment and sustainability.</p> <p>I have demonstrated clear understanding of the design task and collected a range of visual information. I have explained how this will help me to develop my product.</p>	<p>My initial ideas include some original creative features.</p> <p>My initial sketches clearly show different parts of the product.</p> <p>As well as presenting clear initial ideas I have explained and justified important design decisions.</p>	<p>My plans are fairly detailed accurately describing most of the equipment and quantifying materials needed to organise making tasks I also include some Q.C. checks. My plans now also include a good range of Q.C. checks.</p> <p>I have a basic understanding that all systems have inputs, processes and outputs.</p>	<p>I can use a limited range of tools and equipment used with some accuracy.</p> <p>I can use an increasing range of tools and equipment with some accuracy.</p> <p>With my teachers help I have used C.A.M to make a part of my final product.</p> <p>I can use a number of tools, equipment and machinery to help me make my product.</p>	<p>I can write a basic evaluation and identify some achievements &amp; modifications to improve my product.</p> <p>I can present my research findings in chart form to identify how to progress.</p> <p>On completion of my product I honestly compared the final product against the original design specification.</p>
<p><b>Extended</b></p>	<p><b>Secure</b></p>	<p><b>Approaching</b></p>					

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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Meeting Expectations</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Secure</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Approaching</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Developing</p>	<p>I have demonstrated some understanding of materials/ingredients and why they were selected. I have described some technical information and demonstrated how this has helped me to generate ideas for your product. I have been able to list and identify information for my product in a specification. I have communicated basic opinions on physical and emotional needs and on key areas such as the environment and the cost of products.</p>	<p>I understand the characteristics of familiar products when developing and communicating my own ideas showing some modifications where appropriate. I demonstrate skills to show investigation of form and shape by communicating ideas using a variety of media. I can produce mostly realistic designs ideas.</p>	<p>I can write a plan which lists and accurately describes most of the equipment and materials needed to organise making tasks. My plans also include a detailed order of work, to organise making tasks.</p>	<p>With clear guidance I can select &amp; use basic equipment appropriate to the task. With some guidance I can select &amp; use a range of equipment appropriate to the task. With more independence, I can select &amp; use a range of equipment appropriate to the task.</p>	<p>After designing my product I was able to list and label parts/features that needed further development. I can now clearly identify and communicate to others the particular parts of the product which would require further development.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Below Expectations</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Approaching</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Developing</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Beginning</p>	<p>I have been able to identify and collect basic information that has helped you to generate ideas for your product. I have demonstrated a basic understanding of materials/ingredients and why they were selected. I have been able to write a statement that supports the research I have undertaken.</p>	<p>I can make clear my ideas through discussion, drawing and modelling. I have communicated ideas and information with guidance using words, labelled sketches and models to show some details. I can produce emerging good quality models and drawings to explore and test my design thinking.</p>	<p>With help from a teacher, I can write a plan that includes some tasks, equipment and materials needed for making. I can independently write a simple plan with one task per line in bullet point form, presented in a logical order. My plan also has a list of some equipment, materials and times, to organise my making tasks.</p>	<p>I can identify most of the hand tools used during making activities. With some accuracy I use basic equipment to cut, shape &amp; form. With increasing accuracy I use basic equipment to cut, shape &amp; form</p>	<p>I was able to choose my best initial idea for development. I can say why this particular idea was selected.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Below Expectations Developing</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Well Below Expectations Beginning</p>			<p>I can get a small number of images of existing products.</p>	<p>I have my own ideas for different products and have discussed these with my teacher.</p>	<p>When asked to consider a plan to make I listed two or three of the tools/equipment that I will need to use.</p>	<p>During project work I was able to use at least one tool/piece of equipment with some accuracy.</p>	<p>I can compare two similar products and say which one I think is the best.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Well Below Expectations Beginning</p>				<p>I can give some verbal comments when I am shown images of relevant products.</p>	<p>When my teacher asked me to present an idea for a product I sketched a simple diagram..</p>	<p>I understand that planning can be important if I am to make a successful product.</p>	<p>I recognise and can identify some equipment that has an electrical power source.</p>	<p>When shown a product I was able to tell my teacher what features of it I liked/dislike.</p>