



SOUTH WILTS GRAMMAR SCHOOL

Year 8 Standards – Design and Technology

Knowledge/skills	Working towards SWGS Standard for end of Year 8	Working at SWGS Standard for end of Year 8	Working beyond SWGS Standard for end of Year 8
Resistant Materials - Decorative Trinket Box Students should have a thorough grounding on the following: • The importance of designing for the environment understand the 6R's. • The names of cutting and shaping tools. • The needs of the users and design context. Designing the product for a client. Textiles - 3D Wet felted embellished bag To understand past fabric construction methods and their influence on design. • To understand what embellishment means. • To understand the importance of decoration in the sale of products. • Understand how the choice of fastenings affect the outcome.	• Use various sources of information and consider familiar products • Show consideration of the purpose of the design and the views of the user and draw on characteristics from familiar products • Develop your own ideas whilst understanding characteristics of familiar products. • Clarify ideas through discussion, drawing and modelling • Work from own detailed plans, modifying them where appropriate • Use a range of tools, materials, equipment, components, ingredients and processes with some precision. You check progress and can modify your approach	• Use a range of information from different sources and consider the form and function of the products. Your conclusions help you identify design specifications. • Develop your own ideas whilst understanding characteristics of other products and you make drawings and models to explore and test design thinking and consideration of the design specification and end users • Use drawing and modelling to explore and test ideas • Produce and use plans that outline alternative methods of progressing. • Are able to modify plans by showing alternative ways to proceed (Show how the criteria effect the work). • Demonstrate the ability to use a range of tools, ingredients	• Use a wide range of appropriate sources of information; investigate form, function, and production processes. Plus you consider the needs of a range of users. • Show consideration of the purpose of the design and the views of the user plus draw on characteristics from familiar products and your detailed criteria include form and function (appearance, safety, reliability and purpose, etc.). These are related to the varying needs of different users and include working characteristics of materials and components. • Show an understanding of form, function and Manufacturing requirements as your ideas develop plus the different needs of users. Your final developed designs are realistic.





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- To understand how we evaluate the success of a product Graphics - Paper Mechanics greetings Card Students should have a thorough grounding on the following: - How we learn from looking at existing products. - Characteristics of Memphis and Pop Art. - Understanding what makes a good design. - Understand the importance of packaging in the sale of products - The use of 2D Design (CAD) and how it links to the Laser (CAM process). - Cutting tools that are used for cardboard - Recognise the names of several different fibres and distinguish between natural or manmade. - To understand what products are made from felt.	Test and evaluate the end product to the design specification and constraints	and processes taking account of their characteristics. You check and modify your work as it progresses Evaluate the effectiveness using information sources and test the product considering the design specification you show possible ways to improve your product	- Communicate ideas through a variety of media to explore form, function and production. - Predict the time needed for the main stages of making and consider constraints, choice of materials, components and equipment - Demonstrate the ability to use a range of tools, ingredients and processes taking full account of their characteristics. You adapt methods of manufacture to changing circumstances and justify and record any change from the design proposal. - Select appropriate testing techniques to evaluate the product performance. You show resulting modifications that would improve the success of your product.

