



Year 9 Furniture, Jewellery and Bath bombs



West Kirby
Grammar School

Learning about this topic is important because:

Furniture

Project 1: In this unit, you will design and construct a scaled model of a piece of furniture inspired by a specific design movement such as Art Deco, Pop Art, or Memphis. Your model will be made from card and must accurately represent the distinctive style, shapes, and colours characteristic of the chosen movement. You will begin by researching your selected design movement to understand its key features and influences. Using this knowledge, you will develop a detailed design and create a precise, to-scale card model that reflects the essence of the original style. This project will help you explore how historical and cultural design trends influence furniture design, while also developing your skills in model-making, scale drawing, and material handling.

Jewellery Design – Tatty Devine

Project 2: For this group project, you will design and manufacture a set of jewellery inspired by the design house Tatty Devine. Your group will create a coordinated collection consisting of a brooch, a pair of earrings, and a necklace. You will research Tatty Devine's playful and bold style, focusing on their use of bright colours, quirky shapes, and acrylic materials. Working together, you will develop creative designs and produce your jewellery pieces, paying attention to quality, finish, and wearability. This project will help you build skills in teamwork, jewellery design, and practical manufacturing techniques.

Lush Bath bombs

Project 3: In this unit, you will design and create a bath bomb that links scientific principles with practical product design. By researching how Lush manufactures and packages their bath bombs, you will explore ingredient selection, chemical reactions, and sustainable packaging methods. You will cost out your product, develop a clear specification, and design effective packaging using net diagrams. Finally, you will produce a prototype packaging model to evaluate its fit and functionality, combining creativity with technical skills to produce a market-ready product.

This builds on:

- Primary and secondary research skills.
- Creative design and problem-solving skills.
- This project will build upon your previous skills in design development, working collaboratively in a team, and practical making techniques. It will develop your understanding of materials, particularly acrylic and laser cutting
- Model making skills/prototyping
- You will apply skills in costing, specification writing, and using technical drawings such as net diagrams to design packaging. It also develops your understanding of sustainable materials and manufacturing processes, as well as your practical skills in creating prototypes.

This leads to:

- A better understanding of the “iterative” design process and the importance of accuracy when designing and making.
- This helps you understand design styles, improve model-making skills, and create accurate scaled models. It also prepares you for more advanced design projects.
- Improved practical skills in working with materials like acrylic and using manufacturing tools such as laser cutters or hand tools.
- It will develop your ability to design with real-world constraints, think creatively, and work effectively in a team.
- The combination of science and design thinking also encourages a deeper understanding of sustainable manufacturing and consumer needs, preparing students for more complex projects that involve iteration, prototyping, and evaluation in GCSE coursework.

We will learn:

- How to research and understand different design movements and their key characteristics.
- How to create accurate scale drawings and translate them into a physical model.
- How to develop practical model-making skills, including working precisely with card materials.

We will develop/practise skills including:

- Measuring and working to scale
- Cutting and scoring the card accurately
- Folding and assembling parts precisely
- Design skills
- Model making skills (testing)



Year 9 Furniture, Jewellery and Bath bombs

● How to research and develop creative jewellery designs inspired by a real brand. ● Practical skills in working with materials and manufacturing jewellery pieces. ● How to collaborate effectively in a group to plan, make, and evaluate your work ● Calculate the cost of materials and production for a designed product ● Write a detailed product specification based on user needs and design requirements ● Create accurate net diagrams to design effective packaging ● Develop and construct a prototype packaging model ● Apply scientific knowledge to support product design and functionality		● <i>Attention to detail and quality control</i> ● <i>Iterative development and refining designs based on feedback</i> ● <i>Calculate the cost of materials and production for a designed product</i> ● <i>Write a detailed product specification based on user needs and design requirements</i> ● <i>Writing clear and detailed product specifications</i> ● <i>Technical drawing and creating net diagrams for packaging design</i> ● <i>Practical model making and prototyping</i> ● <i>Applying scientific concepts to product design</i>
Some of the vocabulary that we will use includes: ● Ergonomics ● ACCESS FM ● Scale ● Design movement ● Art Deco ● Pop Art ● Memphis ● Model-making ● Prototype ● Cutting ● Assembly Cohesion ● Fabrication ● Ergonomics	● <i>Iterative Development</i> ● <i>Sustainability</i> ● <i>Surface Treatment</i> ● <i>Sodium Bicarbonate</i> ● <i>Citric Acid</i> ● <i>Effervescence</i> ● <i>pH Level</i> ● <i>Solubility</i> ● <i>Exothermic Reaction</i> ● <i>Resin</i> ● <i>Ultraviolet light</i>	You could learn more about this topic by: Manufacturing plywood boards: then and now - YouTube Creating and Organizing a Bookcase Model in SketchUp - Tutorials for Woodworkers - YouTube Card Modelling Techniques Best Types of Bath Bomb Packaging - YouTube How LUSH Bath Bombs Are Made
Your teacher will assess your knowledge & understanding throughout the topic by looking at your work, questioning, discussion and giving you feedback in lots of different ways. The key pieces of work in this topic are: ● Assessment of these practical skills will focus on the accuracy and neatness of measuring and cutting, ensuring the model is built to the correct scale and closely matches the design. The quality and strength of the assembly will be evaluated, including how well parts are joined together. The teacher will assess the practical outcome by evaluating how well the jewellery works and feels when worn, how closely the finished pieces match the original designs, the effective use of materials and manufacturing methods, the creativity of the designs, and how well the group collaborated during the project. The teacher will assess your packaging design by examining the accuracy and quality of your net diagrams, ensuring they can be effectively folded into a practical package. Creativity and innovation in your design will be valued, alongside how well the packaging protects the bath bomb and meets the product specification. ● End of unit examination		