



Design and Technology



Product Design Year 9 – Keepsake Box

In Year 9, students will be asked to create a wooden keepsake box, using advanced wood joinery. This project will replicate the expectation of working to briefs which will be the requirement at GCSE and will be a great foundation for any students wishing to take Product Design at KS4.

Students will learn about the use of a variety of hand tools, including tenon saws and tri squares, as well as learning more advanced wood joints including finger joints. Learners will also use CAD software such as Techsoft to engrave their pencil box. Students will develop their ability to measure and mark up their materials as well as adding the wood stain to their final products.



Assessment:

Students will be marked on 4 areas of assessment; make, design, evaluate, technical knowledge.

Assessment criteria are given out for students to access. These take the form of GPA slips.

Specialist key terms for this unit:

Techsoft	Engraving	Waste Area
Finger Joint	Etching	Needle Files
Tri Square	Laser Cutting	Iteration
Tenon Saw	Marking up	Wood Stain

Subject reading/further support:

Templates available for students if requires

BBC Bitesize – Wood Joints

Suggested enrichment/wider reading activities:

Visit – Design Museum

Read – BBC Bitesize – Wood Joints

Watch – Techsoft tutorials – Learn D&T - Youtube



Food and Nutrition Year 9 – The world of food

Students will look at social issues such as food deserts, eating disorders and special diets as well as continuing to develop their practical skills. Students will be asked to cook more complex dishes that feed directly into GCSE, such as chocolate mousse, flaky pastry and roux based sauces.

They will take part in a lactose free cooking challenge, which encourages creativity and an understanding of allergens and how to cater to people living with them. This builds knowledge that is required at GCSE level Hospitality and Catering.

At this age it is vitally important for students to know how to make healthier food choices, especially when eating away from home. Practical lessons will encourage healthier choices.



Assessment:

Students will be marked on 4 areas of assessment; make, design, evaluate, technical knowledge.

Assessment criteria are given out for students to access. These take the form of GPA slips.

Practical work is also assessed.

Specialist key terms/ names for this unit:

Balanced diet	Coagulation
Health and safety	Food deserts
BMR	Healthy budget meals
Eating disorders	Food security
Budget planning	Laminated pastry
Heat control	

Suggested enrichment activities:

Students are encouraged to practice cooking at home, using the techniques covered in class. For example, when looking at food deserts, students could devise a meal to be cooked at home using nothing but store cupboard staples.

Students can try and keep a food diary for a week, examining their food choices when they are with their friends. What is the role of peer pressure when making food choices?

Let's get thinking...



What's the link?

What's the topic?





Textiles Year 9 – Printed bunting with natural forms

Students are asked to create printed bunting using new techniques including poly-block printing and monoprinting with the theme of 'natural forms.' Students gain an understanding of how a GCSE art textiles-style project is laid out and the expectations for the GCSE course. Students also gain a greater understanding of how to explore a theme as a starting point. During this project students will explore a range of materials, decorative techniques and processes and they will be given the opportunity to:

- Explore textiles techniques through sampling, making connections

with the work of textiles artists and designers.

- Integrate the use of drawing and written annotation into a project
- Experience multiple weeks of 'skills workshops' before working on their outcome.

Assessment:

Students will be marked on 4 areas of assessment; make, design, evaluate, technical knowledge.

Assessment criteria are given out for students to access. These take the form of GPA slips.

Specialist key terms/ names for this unit:

Pattern

Colour

Texture

Poly-block

Printing

Monoprinting

Presentation

Observation

Annotation

Hand Embroidery

Printing Inks

Bunting

Suggested enrichment activities:

Practice your drawing skills by creating additional observational drawing studies of fruit or shells. Use a range of materials including different papers and pencils, chalks and paints to achieve different textures.

Practice your hand embroidery skills by drawing out a design onto fabric and covering the design with running stitch, back stitch, cross stitch, satin stitch, lace stitch and French knots. Look up new embroidery stitches you haven't tried yet and have a go at new embroidery techniques too!