

KS3 YEAR 7 CURRICULUM OVERVIEW

SUBJECT: DESIGN TECHNOLOGY

PROJECT 1 Desk Tidy Timbers and Plastics

Topics being taught

- Health and Safety introduction.
- Selecting of materials for their properties.
- Selection and use of tools, machines, and processes of manufacture.
- Plastic process – vacuum forming.
- Introduction to timbers – manufactured vs natural.
- Designing to scale.

What you will be assessed on

- Material names/categories.
- Tool names.
- Health and Safety in the workshop.
- De Stijl Design movement.
- Quality of final manufacture product.
- Designing with accuracy and to scale.

How you can support at home

- Materials and their uses in different products.
- Support home learning tasks linked to project.

PROJECT 2 Gadget CAD/CAM and plastics

- Introduction to CAD – Techsoft design.
- Laser cutting.
- Prototyping and modelling in card.
- Working with plastics (acrylic) – strip heating.
- Designing for purpose.
- 2D into 3D sketching.

- Use, knowledge and understanding + of using CAD – Techsoft design.
- Quality of final designed product.

- Support home learning tasks linked to project.

