

DESIGN TECHNOLOGY: DISCIPLINARY KNOWLEDGE

Year 6

Designing

- When researching, be competent in identifying what would be and would not be helpful for their intended product.
- Use research of existing products to inform their design.
- Follow and refine original plans, justifying them in a convincing way.
- Draw detailed 3D designs using exploded diagrams or cross-sectional drawings where appropriate to display finer details.
- Show that culture and society are considered in plans and design specifications.
- Show thought has been given to materials relating to recycling and sustainability.
- Know how much products cost and make choices accordingly.

Making

- Confidently select appropriate tools, materials, components and techniques and use them efficiently.
- Know how to use tools correctly and safely.
- Know what each tool is used for.
- Explain why a specific tool is best for a particular action.
- Make modifications as they go along and explain their reasons.
- Construct products using permanent joining techniques.
- Use mechanical systems, such as pulleys and gears, competently to enable movement in their products.
- Know how more complex electrical circuits and components can be used to create functional products and how to program a computer to monitor environmental changes and control their products.
- Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment, including ICT.
- Pin, sew and stitch materials together to create a product.

DESIGN TECHNOLOGY: DISCIPLINARY KNOWLEDGE

Year 6 (continued)

Evaluating

- Test and evaluate designed products with a specific audience where possible.
- Explain how products should be stored and give reasons.
- Evaluate the product against clear criteria.
- Evaluate their work both during and at the end of the assignment.
- Record their evaluations using drawings with labels.

Technical Knowledge

- Know which IT element would further enhance a specific product.
- Use knowledge to improve a made product by strengthening, stiffening or reinforcing.
- Use electrical systems correctly and accurately to enhance a given product.
- Know when a product they have made is improved by using pulleys, levers or gears.

Food Technology

- Explain how food ingredients should be stored and give reasons.
- Work within a budget to create a meal.
- Understand the difference between savoury and sweet dishes.
- Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source.
- Know that different foods and drinks contain nutrients, water and fibre needed for good health.