



YR 9 DESIGN Technology & Food

Revision guidance

Circulation: YEAR 9 STUDENTS

Title: Year 9- End of Year formal assessment guide

Purpose: To provide revision information for EOY assessment

1. Graphics & Design Theory

- Material Selection: Properties of modelling materials (e.g., corrugated card vs. 80gsm paper).
- Workshop Safety: Safe use of scalpels, metal rulers, and hot glue guns.
- Digital Tools (SketchUp): Functions of the Push/Pull, Orbit, and Pan tools.
- Design Terms: Defining Aesthetics, Function, and the purpose of Moodboards.
- Visual Balance: Identifying Symmetry and Asymmetry in products.

2. Resistant Materials (Wood & Tools)

- Wood Joints: Identifying Finger, Dowel, Butt, and Mitre joints.
- Workshop Machinery: Uses and safety rules for the Fret Saw (Hegner), Band Facer, and Pillar Drill.
- Marking Out: How to use a Try Square and Steel Rule accurately.
- Scaling & Maths: Converting cm to mm and calculating scales (e.g., 1:1, 1:2, and 1:20).

3. Food Technology

- Temperature Control: The "Danger Zone," safe fridge temperatures, and freezer settings.
- Food Safety: Conditions for bacterial growth and preventing cross-contamination.
- Hygiene: Personal hygiene rules and kitchen sanitization.
- Food Science: The role of Gluten in bread making and sources of protein.
- Health: Common food poisoning bacteria and their symptoms.

4. Technical Drawing Skills

- Isometric Drawing: Creating 3D shapes using 30-degree angles.
- Oblique Projection: Drawing objects with a flat front face and 45-degree depth.
- Perspective Drawing: Using vanishing points to create realistic depth.



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Recommended Revision Links

General Design & Materials

- [BBC Bitesize: Design & Technology \(General\)](#)
- [Technology Student: Design Process & Theory](#)

Resistant Materials & Tools

- [Technology Student: Wood Joints Guide](#)
- [BBC Bitesize: Hand and Machine Tools](#)

Technical Drawing & Graphics

- [Technology Student: Isometric, Oblique & Perspective](#)
- [SketchUp for Schools: Beginner Tutorials](#)