

Year 12 Design & Technology Summer Challenge (AQA)

Portfolio Preparation Task

Introduction

Welcome to A-Level Design & Technology!

This summer task is designed to help you transition from GCSE to A-Level, develop essential graphical communication skills, and begin building a portfolio that demonstrates your creativity, technical ability, and presentation quality.

Aim of the Project

To produce a high-quality mini-portfolio that demonstrates:

- Technical drawing accuracy
- Understanding of different drawing systems
- Rendering techniques (tone, materials, texture)
- Professional presentation skills

What You Must Produce

Create a portfolio of A3 sheets of various products of your choice (minimum 6–8 pages) including the following:

One-Point Perspective Drawing (A3)

Draw an interior or product using one-point perspective. Include a vanishing point, horizon line, accurate proportions, and apply tonal rendering.

Example: a bedroom with a bed, desk, and window.

Two-Point Perspective Drawing (A3)

Draw an object or building using two-point perspective, showing depth and realism with tonal rendering.

Example: a modern building of your design or an existing famous design viewed from the corner.

Isometric Drawing (A3)

Draw a product clearly and accurately, including colour or tonal rendering and surface detail.

Example: a simple product like a speaker

Working Drawing (A3)

Produce a technical drawing including dimensions, labels, and front, side, and plan views.

Example: a product with precise dimensions.

Exploded View Drawing (A3)

Draw a product as an exploded diagram showing components and assembly, using line weight variation.

Example: a torch, phone, or small device.

Rendering & Graphics Skills

You must demonstrate:

- Rendering with tone (light source, shadow, depth)
- Material rendering (at least 3 materials such as metal, wood, plastic, or glass)
- Thick and thin line technique

Presentation Standards

- All work should be on A3 paper
- Include titles and clear headings
- Maintain neat layout and minimal smudging
- Show care and progression
- Use appropriate drawing tools

Assessment Focus (AQA Skills)

Your work will be judged on:

- Accuracy of drawing techniques
- Quality of rendering
- Understanding of design communication
- Presentation and organisation
- Effort and creativity

Deadline

Bring your completed portfolio to your first Design & Technology lesson in Year 12.