

Year 10 Design and Technology

Examination outline

Introduction

An examination is only one component of your continuous assessment. While it is important, your D&T examination should not be viewed as an obstacle but rather as an opportunity for you to express creatively your understanding of the course work.

So, prepare wisely, ground yourself for concentration and be confident in your own ability. This outline aims to guide you in your study.

Exam structure

The examination is in three sections and will last for 1½ hours. Take with you pens, pencils, rubber and ruler. Study the question paper briefly at the start to decide which questions you can answer the quickest first so you can devote more time to the challenging ones.

- Section I 10 multiple choice questions worth one mark each. The questions will explore your understanding of the components of the stages of the Design Process and how you have applied this to your own designs.
- Section II Short answer questions based on a design in practice. Your knowledge of materials, safety and ergonomics may be tested.
- Section III A brief design problem. This will test your skills in idea generation and concept drawing according to your criteria for success.

The Design Process

Stage 1: Clarify the problem

- Analyse the brief
- Consider all factors
- Criteria for success
- Time planning

Stage 2: Investigate and research

Stage 3: Generate ideas

- Brainstorm using mind maps, word association, inspiration, lateral thinking.
- Thumbnail sketches: quick concept sketch to develop and progress your ideas.

Stage 4: Choose the best solution

- Use PMIs to help select your best ideas and justify your final choice.

Stage 5: Plan and produce

- Work out final design using scale drawings, material and cutting lists, making models and/or prototypes.

Stage 6: Test and evaluate

- Test if your design works as intended and evaluate. Evaluate against the Criteria for Success.