

CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Ordinary Level

**DESIGN AND TECHNOLOGY**

**6043/02**

Paper 2 Project Theme

October/November 2003

No Additional Materials are required.

**INSTRUCTIONS TO SUPERVISORS**

This project theme should be notified to candidates at the beginning of the first term in the year of the examination.

This document consists of 4 printed pages.



**DESIGN PROJECT**

The theme for the project is **SECURE STORAGE**.

You are to design and make an artefact that provides **SECURE STORAGE** for an item or items.

Initially, you should explore and make a brief analysis of a number of design situations where **secure storage** of items is an important feature.

**Secure storage** of items may be achieved in many different ways and may, for example, include the following principles: mechanical; frictional; magnetic; electrical; electronic; or combinations of these principles.

You may interpret the theme of **secure storage** as widely as you wish. To assist but not restrict your thinking the following topics which may involve **secure storage** are offered:

- Delicate or fragile items
- Precious or valuable items
- Personal items
- Office or computer items
- Tools or electrical equipment
- Sports or games equipment
- Items which need to be safely stored away from small children
- First aid and/or medical items

From your analysis you are to identify a **secure storage** design situation for which you are to design and make an artefact.

There are two parts to the project:

Part A Design Folio

Part B Design Artefact

**Part A Design Folio**

The folio is to be A3 size maximum format and should consist mainly of illustrations and drawings, supplemented where necessary by the written word. Photographs may be included where helpful. Pages should be numbered and a list of contents, referenced with page numbers, included. The folio should include the following sections in the order given:

**(i) List of contents****(ii) General analysis of the topic**

Identification and brief analysis of a range of products and/or systems that incorporate a **secure storage** feature.

**(iii) (a) Brief**

An identified design task described in general but accurate terms.

**(b) Specification**

A design specification. Concise itemised requirements to be met by the solution.

**(iv) Exploration of ideas**

Exploration of a range of ideas for meeting the design specification.

**(v) Development of proposed solution**

Detailed development of the selected idea, including form, materials and constructions to be used.

**(vi) Final design**

Drawing(s) showing the complete intended solution.

**(vii) Production plan**

Identified sequential stages and processes with consideration of some of the more complex tasks to be used in the construction of the solution.

**(viii) Evaluation**

This will be based mainly on how well the outcome product matches the design requirements as identified in the specification. Other sections of the folio should reveal the ongoing evaluation by the candidate as the design is developed by showing the basis of decisions made.

**Part B Design Artefact**

The production of the artefact should involve a range of skills. It can be made of a single material or a range of materials appropriate to the product.

Candidates should avoid large-scale tasks, which might prejudice the quality of the completed artefact.

**Notes to Teachers**

Support of the candidate by the teacher through advice and guidance is crucial throughout the project but the candidate is to exercise judgements and make personal decisions in the formulation and making of the design. The practical work is to be entirely that of the candidate under normal guidance of the teacher. Counselling will be necessary in helping candidates select a project suitable in scope and demand appropriate to their abilities.

Candidates are to be made familiar with the scheme of assessment as detailed in the syllabus at the onset of the project. The 'Teacher's Guide to Assessment', as detailed in the syllabus, should also be used to inform candidates of the various requirements for the assessment of the work.