

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

CDT: DESIGN AND COMMUNICATION

7048/02

Paper 2 School Based Assessment

October/November 2006

INFORMATION FOR THE EXAMINATION IN 2006

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

You are required to spend two semesters (terms) designing and realising possible solutions to one of the following problems. Wherever possible you should apply your chosen problem to an actual location in your local area. **Remember that this is coursework and you may seek guidance from your teacher or any other sources that may support you in developing your design work.**

This document consists of 6 printed pages and 2 blank pages.



- 1** Consider the situation where a hotel is to build a pool side refreshment area. The area will include a bar from which food and drinks will be available and provide facilities for people to sit.

Research hotels that have this type of facility.

Identify the hotel on which you will base your work and the pool facilities that it already has.

Develop a design for a pool side refreshment area.

Produce a model of the area together with supporting drawings that fully communicate your design.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 2** Consider the situation where a company requires a leaflet advertising fishing trips off the coast of Mauritius and a holder to display the leaflets. The leaflet is to be made from one sheet of A4 paper. The holder is to be made from card. It should be flat packed so that it can be easily posted to hotels and other places where it will be used.

Research existing designs for leaflets and leaflet holders.

Identify a particular company that runs fishing trips and collect some information about the facilities it offers.

Develop designs for:

(a) the leaflet;

(b) the leaflet holder.

Produce prototypes of both the leaflet and the leaflet holder. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 3** Consider the situation where a travel company requires a counter top display stand to promote its web site which advertises coach trips around Mauritius. The stand is to be made from card.

Investigate:

- (a)** existing travel web sites;
- (b)** existing counter top display stands.

Identify a travel company on which to base your work and collect some information about the trips it runs.

Develop designs for:

- (a)** an introductory page for the web site;
- (b)** the counter top display stand.

Produce:

- (a)** a computer printout of the introductory page;
- (b)** a prototype of the counter top display stand. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 4** Consider the situation where a souvenir DVD and booklet about Mauritius is to be produced. The DVD and booklet are to be packaged in a box made from card.

Research souvenir DVDs, video tapes and similar products that are currently available in terms of their packaging and the information they contain.

Identify the images and information that you might use on the packaging and the front of the booklet.

Develop designs for:

- (a)** a card box to hold the DVD and booklet;
- (b)** the front cover of the booklet.

Produce prototypes of both the packaging and the front cover of the booklet. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 5** Consider the situation where a skateboard/roller skate park is to be built.

Research existing skateboard/roller skate parks.

Identify:

- (a)** a suitable site for the skateboard park;
- (b)** the types of facility (ramps etc.) that you will include.

Develop designs for:

- (a)** the layout of the skateboard park;
- (b)** one of the ramps.

Produce a model of the ramp and a computer generated drawing of the layout of the skateboard park. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 6** Consider the situation where a museum is to hold an exhibition about the arts and crafts of Mauritius. Each type of art and craft is to have its own exhibition stand.

Research:

- (a)** exhibition display stands;
- (b)** the arts and crafts of Mauritius.

Identify the type of art or craft that you will base your work on.

Develop a design for an exhibition display stand.

Produce a model of the exhibition display stand with supporting drawings that fully communicate your design.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 7 Consider the situation where a series of 6 walking guides are to be produced. Each walk will be approximately 5 kilometres long and enable visitors to Mauritius to see places of interest as well as the island's flora and fauna.

Research:

- (a) existing guides in terms of their format and the information that they contain;
- (b) areas of the island that would be suitable to base your work on.

Identify a suitable area of the island on which to base your work and collect information about the places of interest and the flora and fauna in that area.

Develop designs for:

- (a) **one** walking guide. The guide is to be made from a single sheet of A3 paper folded to give a suitable format;
- (b) a folder to hold 6 walking guides.

Produce prototypes of both the walking guide and the folder. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use techniques for testing your work against its original specification so that it can be evaluated fully.

- 8 Consider the situation where a beach barbecue area is to be built.

Research

- (a) existing barbecue areas;
- (b) possible sites for the barbecue area.

Identify:

- (a) a suitable site for the barbecue area;
- (b) the range of facilities that the area will include.

Develop a design for a beach barbecue area.

Produce a model of the barbecue area together with supporting drawings that fully communicate your design.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

- 9** Consider the situation where a new potato snack is to be introduced onto the market.

Research the types of potato snack that are currently available in terms of their shape, name, packaging and the type of market they are aimed at.

Identify the market that the potato snack will be aimed at and establish a suitable name for the snack.

Develop designs for:

- (a)** the shape of a new potato snack and a packet to hold them;
- (b)** a special introductory pack to hold three packets of the potato snack to be sold at the normal price for two.

Produce prototypes of both the packet and the introductory pack. These should be accompanied by supporting drawings that fully communicate your designs.

Devise and use suitable testing techniques for testing your work against its original specification so that it can be evaluated fully.

- 10** Consider the situation where a range of model car kits is to be produced. Each kit will consist of an A3 sheet of card on which is printed the developments (nets) to be cut out and glued together to make a car along with the instructions on how to make the model car.

Research:

- (a)** existing card model kits;
- (b)** cars on which you could base your work.

Identify a suitable car and collect information about it.

Develop a design for an A3 card cut out model kit for a car.

Produce:

- (a)** a prototype of the A3 sheet;
- (b)** a card model which has been made from the A3 sheet.

Devise and use suitable techniques for testing your work against its original specification so that it can be evaluated fully.

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