Student’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

YEAR 11 Design & Technology

Unit 1 Exam

Vermont Secondary College

Semester 1 - 2011

Teacher: Mrs Aeschlimann

QUESTION & ANSWER BOOKLET

Number of Questions: Section A – 4, Section B – 4

Number of Questions to be answered: 8

Instructions:

Write your name in the space provided.

Read through the exam carefully during the reading time. Answer the questions in the space provided, take notice of requirements such as “explain” and look at the mark allocation. Answer every question. Make sure you annotate your design option.

Section A: Question and answer section 54 marks

Section B: Design section 66 marks

TOTAL 120 marks

SECTION A

Design Brief

Harvey Norman is developing a new range of cost effective environmentally friendly bedroom furniture. The set is to be designed for a child’s bedroom. There are to be three pieces in the range- a single bed, a bedside table and a toy/storage box. The set will be used by boys and girls. The set can be gender neutral or gender specific, however if it is to be gender specific the design must be easy to change from boy to girl.

Question 1:

1. Identify the client

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1. Identify the target audience

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1. Identify the end user

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3 marks

Question 2:

1. Identify the constraints- specific and implied

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1. Identify the considerations

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1. Write four Evaluation Criteria Questions based on the Design Brief. Include Question, Justification and Method of Testing.

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1. Apart from researching existing designs, list three other relevant areas to be researched and how this will help you.

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6 + 3 + 12 + 4 = 25 marks

Question 3:

1. Describe what makes something a “set”.

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1. Identify three ways you can make the bed, bedside table and storage/toy box look like a set.

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1. If your set was judged to be too expensive, what part of the designs would be the most cost effective to change and why?

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1. What material/s should be non-toxic for this set and why?

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3 + 3 + 3 + 3 = 12 marks

Question 4:

1. What is the role of the designer?

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1. What is the role of the client?

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1. How often, why and how would you communicate with your client?

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1. What are the benefits and pitfalls of working in a team?

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2 + 2 + 4 + 6 = 14 marks

END OF SECTION A

SECTION B

Using the Design Brief from Section A and the Evaluation Criteria developed in question 2, design one of the following:

Single bed – allow for a mattress size of 92cm X 187cm, needs a head and foot board.

Bedside table – height of 70mm, needs storage.

Toy/Storage box – lid must not be able to fall onto child’s head.

Product: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use this page for rough designs

Question 5: Design Option

1. Annotation of evaluation criteria 3 marks
2. Clarity and detail of drawing 3 marks
3. Materials, measurements and processes 3 marks
4. Elements that work as a set 3 marks
5. Function/suitability of use 3 marks

TOTAL -15 marks

Question 6:

Identify two pre-finishing processes and one finishing process that you will need to use to construct your product. Fill in the chart in detail.

|  |  |  |  |
| --- | --- | --- | --- |
| Process | Tools/Equipment | Steps to complete | Safety issues/needs |
| (Pre-  finishing) |  |  |  |
| (Pre-finishing) |  |  |  |
| (Finishing) |  |  |  |

(1 + 2 + 3 + 2) X 3 = 24 marks

Question 7:

Write care instructions for your product

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3 marks

Question 8:

1. Look at the reusable coffee cups. They were tested to see which was best. Design a test that you could use to assess the effectiveness of the cups based on the results provided. Remember the test must be able to be replicated and applied to all mugs.

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5 marks

1. Choose one reusable coffee cup and suggest how you could improve it.

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3 marks

1. Identify a positive social issue with the reusable coffee cup.

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1. Identify a positive economical issue with the reusable coffee cup.

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1. Identify a positive environmental issue with the reusable coffee cup.

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1. Identify a positive ethical issue with the reusable coffee cup.

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1. Identify a negative social issue with the reusable coffee cup.

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1. Identify a negative economical issue with the reusable coffee cup.

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1. Identify a negative environmental issue with the reusable coffee cup.

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1. Identify a negative ethical issue with the reusable coffee cup.

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2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16 marks

END OF EXAM