

Final Project Part A

Design a Product – The Design Brief

This Assignment is the first part, of a 3-part Project.

For **Part A**, you are responsible to research a flawed product design of a household or handheld item of your choice. In Parts B and C you are going to fix this design problem.

For **Part A**, you will write a design brief for the product you plan to improve.

The design brief should be a **3-page** word document and must include the following:

Page 1 - Title page which states Course Name / Which Project it is / The name of the product you are working on / Your name / and the Date

Page 2 - A one-paragraph design problem summary and a one-paragraph design brief (i.e. what you are going to design and make) summary.

- Remember that the design problem summary should clearly state the design problem, and discuss reasons why this is a problem.
- The design brief indicates that you plan to design and make something to fix this problem. In the design brief include how the fix will stop some of the problems listed in the design problem.
- DO NOT DISCUSS specific solutions in the design brief.
- See example below...

Page 3 - A drawing of the product with labels for the problem. The drawing can be done by hand, or on the computer.

DESIGN PROBLEM EXAMPLE

A number of houses have been broken into on my street. It has been noticed that the number of strangers walking down our street has increased lately and house holders are becoming concerned about the security of their houses. The police have advised people to make their houses look as if they are occupied when they go away for a holiday or even out for the evening. This may deter a potential thief from breaking into either the house or garage.

The Neighborhood Watch scheme has also been introduced recently and this has helped people feel more secure. However, even though neighbors will keep an eye on your property if you decide to go out and leave the house empty, they cannot watch twenty four hours a day.

Often even the police ignore house alarms when they are activated because of the high number of false alarms.

DESIGN BRIEF

I am going to design and make a security device that will make my house look occupied when, in fact, it is empty. Police statistics clearly show that houses are much more likely to be broken into when they are empty. Consequently, if the house looks occupied it is likely to be safe.

The device will be mobile so that it can be moved from room to room, easy to set up and control and also cheap to make. It must not be powered by mains voltage and in this way it will be completely safe to be left 'on' for a long time and will not be affected by power cuts. It will be activated by anyone approaching the house from the front or back.

It must deter even professional crooks from taking an interest in our house and even convince people in the street that the house is occupied.

Scoring Rubric

Title page / 10

Design Problem

Clearly stated / 10

At least 3 reasons it is a problem clearly / 30

Design Brief

Clearly stated / 10

Reasons from design problem addressed / 30

Labeled picture of product with flaw clearly shown / 10

Total / 100