

Junior Certificate Technology

Ordinary Level

Design Folio

Year

Design Task

Examination Number

School Roll Number

Note:

The headings given are guidelines only.

Students are encouraged to add additional pages/information as required.

Analysis of chosen task

Rewrite the design brief **chosen** in the space provided:

In your own words, list the **important elements** of the **above** design brief:

In your own words, list some of your **own** specifications for the **above** design brief:

Note: A specification is a list of things that your design must do so that it works well.

Research – Investigation of existing solutions

Describe the form(s) of research carried out (e.g. internet, books, catalogues, visit to shops, local area of interest, interview etc.)

- It may help to examine **existing solutions** to the design brief.
- This may include researching suitable **components, mechanisms** and/or **circuits**.

List form(s) of research:

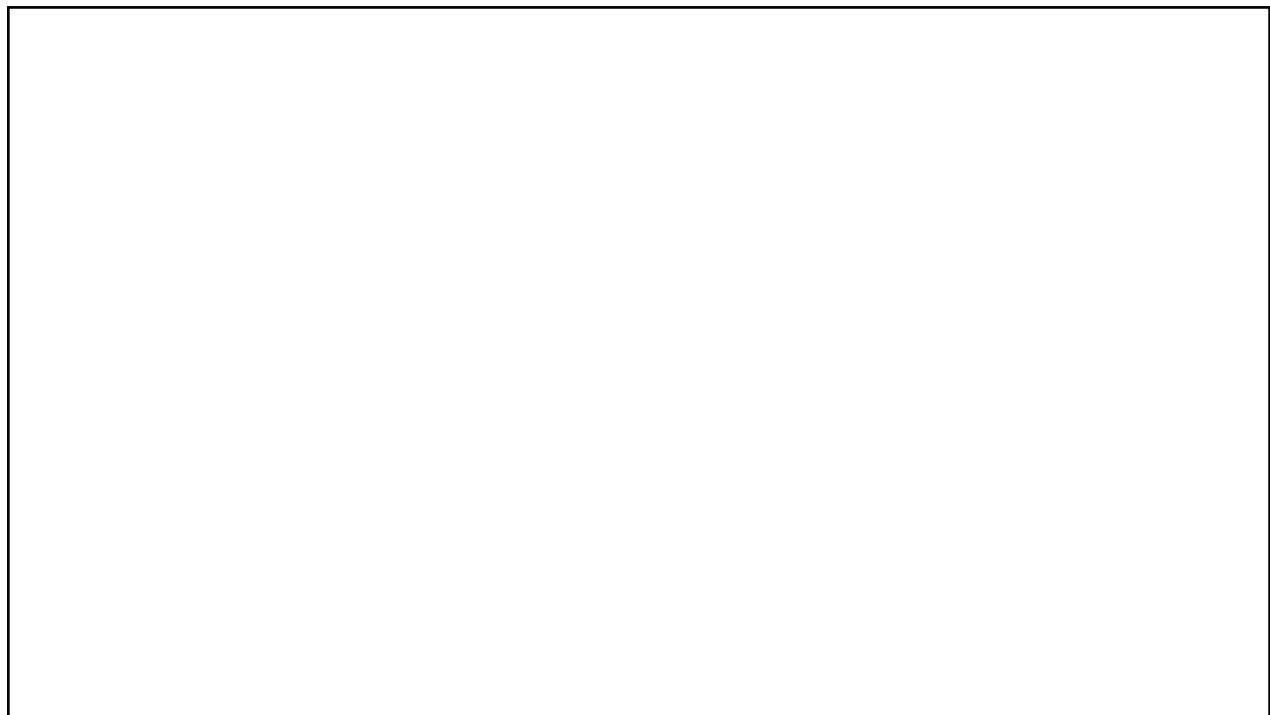
What did you find out?

Research – Investigation of existing solutions

What did you find out? (continued)



What information have you found which might be useful in developing your design ideas?



Development of ideas

Make a sketch of at least one possible idea for your chosen task.

Explain briefly how your design(s) will work.

Note: Label all components (e.g. switches, LEDs etc.)

Colour may be used to enhance your ideas.

Development of ideas

Selection and Justification of Solution

Which design idea are you making?

Give reasons why you have selected this design:

Hint: You can mention such factors as; functionality, size, shape, materials, colour, texture, processes, time, cost, subsystem used etc.

Drawings for manufacture

Make an orthographic projection or a 3D drawing of your final design.

Include dimensions on your drawing.

Include the subsystem in your drawing (circuit diagram and/or mechanism).

Hint: This section should include the size and shape of all parts of your design and should show how they are to be assembled.

Drawings for manufacture

Plan of manufacture

List the steps taken to manufacture your design.

Hint: Remember to include each part and the subsystem.

Testing

Does your finished design work?

Explain your answer:

In what ways does your finished design task meet/not meet the specifications you listed under 'Analysis of **chosen** task'?

Explain your answer.

Evaluation

Identify one good aspect of your finished design task:

Identify one aspect for improvement in your finished design task:

Identify a possible change (if any) you would make if completing the design task again:

