EXAMINATIONS COUNCIL OF ESWATINI
Eswatini General Certificate of Secondary Education

DESIGN AND TECHNOLOGY **6902/01**

Paper 1 Design **October/November 2025**

1 hour 15 minutes

Candidates answer on the pre-printed A3 answer sheets.

Additional Materials: Standard Drawing Equipment
Calculator

READ THESE INSTRUCTIONS FIRST

Write your centre number, candidate number and candidate name in the spaces on **both** printed answer sheets.
Write in dark blue or black pen.
You may use a soft pencil for any diagrams, graphs, or rough working.
Do **not** use staples, paper clips, glue or correction fluid.

There are three questions in this paper.
Answer **one** question.

At the end of the examination, tie your answer sheets together.
The number of marks is given in brackets [ ] at the end of each question or part question.
A calculator should be used.
The total mark for this paper is 50.

This document consists of **4** printed A4 pages and **2** A3 inserts.

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Answer **one** question only on the A3 pre-printed answer sheets provided.

1 A local town council has advised a newly opened restaurant that it must recycle waste material.



Design a unit for a kitchen that will store four different types of recyclable materials separately.

(a) List four additional points about the function of such a unit that you consider to be important. [4]

(b) Use sketches and notes to show **two** different places in a kitchen where the unit could be positioned. [4]

(c) Develop and sketch **three** separate ideas for the unit [12]

(d) Evaluate your ideas and justify why you have chosen **one** idea to develop more fully. [8]

(e) Draw, using a method of your own choice, a full solution to the design problem. Include construction details and major dimensions. [12]

(f) Suggest **two** suitable specific materials for the solution you have drawn in part **(e)** and give reasons for your choice. [4]

(g) Outline a method that could be used to manufacture **one** part of your solution drawn in part **(e)**. Include the names of the tools used. [6]

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(a) Answer **part (a)** here. [4]

1.....

.....

2.....

.....

3.....

.....

4.....

.....

(b) Answer **part (b)** here. [4]

(c) Develop and sketch your ideas here. [12]

continued overleaf

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Answer Sheet 1 of 2

Paper 1 Design

Answer sheet 1 of 2.

Write your centre number, candidate number and name in the spaces provided on this sheet and sheet 2.

Write the number of the question you have answered in the space provided.

Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

Centre Number .....

Candidate Number .....

Name .....

Question Number .....

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Part (c) continued.

(d) Evaluate your ideas here. [6]

Idea 1

Advantage .....

.....

.....

Disadvantage .....

.....

.....

Idea 2

Advantage .....

.....

.....

Disadvantage .....

.....

.....

Idea 3

Advantage .....

.....

.....

Disadvantage .....

.....

.....

Choose one idea to develop more fully. Justify your choice. [2]

Chosen idea .....

Reason .....

.....

.....

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(e) Draw the full solution to the problem here.
Include construction details and major dimensions. [12]

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Answer Sheet 2 of 2

Paper 1 Design

Answer sheet 2 of 2.

Write your centre number, candidate number and name in the spaces provided on this sheet and sheet 1.

Write the number of the question you have answered in the space provided.

Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

Centre Number .....

Candidate Number .....

Name .....

Question Number .....

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(f) Answer **part (f)** here. [4]

1 Material .....

Reason .....

.....

2 Material .....

Reason .....

.....

There is no need to write or draw here unless you wish to continue another part of the question.

(g) Answer **part (g)** here. [6]

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2 A small general merchandise store in Mangedla Plaza is losing sales to large supermarkets and needs to make people aware of the range of products it sells.



Design a promotional card for the general merchandise store which includes features that will attract customers. The card will be distributed to local homes.

(a) List **four** additional points about the function of such a card that you consider to be important. [4]

(b) Use sketches and notes to show **two** types of features that could be included on a promotional card to attract attention. [4]

(c) Develop and sketch **three** separate ideas for the card. [12]

(d) Evaluate your three ideas. Choose **one** idea to develop further and justify your choice. [8]

(e) Draw, using a method of your own choice, a full solution to the design problem. Include construction details and important dimensions. [12]

(f) Suggest **two** suitable specific materials for the solution you have drawn in part **(e)** and give reasons for your choice. [4]

(g) Outline a method that could be used to manufacture a **prototype** of your solution drawn in part **(e)**. Include the names of the equipment used. [6]

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[Turn over

3 School libraries often store some of their books on high shelves that are difficult to reach.



Design a device which would help students easily reach books from the top shelves in a school library. The device must include a mechanism.

(a) List **four** additional points about the function of such a device that you consider to be important. [4]

(b) Use sketches and notes to show **two** mechanisms that could be used to grip or hold books. [4]

(c) Develop and sketch **three** separate ideas for the device. [12]

(d) Evaluate your three ideas. Choose **one** idea to develop further and justify your choice. [8]

(e) Draw using a method of your own choice, a full solution to the design problem. Include construction details and important dimensions. [12]

(f) Suggest **two** suitable specific materials for the solution you have drawn in part **(e)** and give reasons for your choice. [4]

(g) Outline a method that could be used to manufacture **one** part of your solution drawn in part **(e)**. Include the names of the tools used. [6]

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