



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Advanced Level

**WOOD TECHNOLOGY AND DESIGN**

**6027/4**

Paper 4 Design Project

**NOVEMBER 2019 SESSION**

No additional materials are required.

**INSTRUCTIONS TO CANDIDATES**

Attempt **one** option only.

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**This question paper consists of 3 printed pages and 1 blank page.**

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## General Notes

Teachers should refer to the syllabus items **8.2.1, 8.3.1, 8.3.2, 8.4.1, 8.5.1, 8.7.1** and **9.0 (a) and (b)** for explaining the **Design Project** and to the notes for guidance.

Candidates should choose **one** project from the **two** options (**1** or **2**) given below and produce:

- (i) a detailed **A3** Design Folio showing the development of the design process, from the situation through to the plans for the solution. Costing and the Final evaluation of the project should appear in the folio,
- (ii) a well constructed mock-up/model of the chosen solution, in any suitable material,
- (iii) a well constructed artefact of the chosen solution.

**Production of the artefacts should be preceded by the following (where possible):**

- testing for moisture content before use,
- testing for strength of the timber before use,
- jigs and templates should be incorporated,
- consider patenting process and quality control measures in the evaluation.

## Option 1

### Situation

After dressing up for the day, one would want to get a view of himself/herself checking the fitness or appropriateness of the dressing.

### Brief

Design and make a free-standing unit which can be used for giving a mirror image of the user after dressing.

The unit should:

- have a holder of the mirror which swivels on its supporting axis,
- provide a storage space for dressing aids such as hair brushes and combs,
- provide storage spaces for toiletries and make-up kit,
- be machined.

**Option 2****Situation**

A woman has developed health problems affecting her legs. She cannot stand for a long period of time especially when preparing meals on a four plate stove.

**Brief**

Design and make a unit to sit on while preparing meals.

The unit should:

- occupy the least amount of space possible,
- provide a back rest, arm rest and foot support at a convenient height,
- have an upholstered seat,
- be machined.

**N.B. Candidates are also encouraged, where possible and relevant, to combine different materials e.g. wood and metal or plastic in realising their designs, provided the predominant material remains wood.**

Computer applications like CAD or CAM may be used.

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