



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

**DESIGN AND TECHNOLOGY**

**6005/3**

Paper 3 Design Project

**NOVEMBER 2019 SESSION**

No additional materials are required.

**INSTRUCTIONS TO CANDIDATES**

Attempt one option only.

**GENERAL NOTES TO THE CANDIDATE**

Candidates are expected to formulate a project design brief from the given theme and produce a design folio using **A3** drawing paper.

Produce a scaled down model.

Produce a full size/scaled down artefact of own design solution.

The use of **Computer Aided Design** (C.A.D) is encouraged.

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**This question paper consists of 2 printed pages.**

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## General Notes

The facilitator should refer to section **7.0** of the syllabus 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 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, and
- (iii) a well constructed artefact of the chosen solution.

### Option 1

#### Situation

When young children are playing they enjoy using toys which produce sound. They also like moving from one point to another.

#### Brief

Design, model and produce a moving toy which makes some form of sound.

The design should incorporate among other things the following:

- wheels which rotate freely,
- parts which are securely fixed,
- the toy must also be user friendly,
- made from materials which are non-toxic,
- robust and withstand tear and wear.

**Option 2****Situation**

After harvesting tobacco/cotton, most farmers find it very difficult to effectively and efficiently pack the tobacco/cotton in the bale. In most cases they use their feet to press the bales. This has always resulted in the bale becoming too big and of no weight.

**Brief**

Design, model and make a gadget to be used when pressing bales. The gadget should incorporate among other things the following:

- mechanism of holding the bale in position,
- mechanism of pressing the tobacco/cotton bale effectively.

**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.**

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