

P740/1
METALWORK
Paper 1
2026
3 hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

METALWORK

Paper 1
(Design and Drawing)

3 hours

INSTRUCTIONS TO CANDIDATES:

*This examination paper consists of **two compulsory items**.*

*Respond to **all** items.*

*Responses to item **1** must be in the answer booklet provided.*

*Responses to item **2** should be done on the drawing paper size **A2** provided.*

1. Students at Kobamo Secondary School place their metallic boxes directly on the dormitory floor. The boxes are often dragged on the floor and stepped by the students, causing damage to both the floor and the boxes as shown in Figure 1.

The warden reported the problem to the Head teacher, who stated that although the floor would be renovated, measures should be put in place to prevent further damage. The Head teacher therefore requested the school metal fabricator to develop possible solutions.

The metal fabricator has involved metalwork students and has therefore tasked them to design a practical solution that will prevent metallic boxes from being dragged or stepped on.



Fig. 1 – Photo showing the damaged floor and boxes in the dormitory.

Task:

Produce a report explaining how the designed practical solution should be made.

2. Kimberly Junior School has a challenge in its lower primary section. The existing classroom chairs are too big for the young learners to use comfortably. This has affected their posture, engagement in classroom activities and safety when moving the chairs. To address this, the Director decided that the chairs must be redesigned to suit the physical needs of pupils. The new design should include a lockable storage drawer beneath the seat to keep personal belongings. A sample design is shown in figure 2 but it requires improvements to fully meet the needs of the learners. Currently, the school does not have working drawings to guide the production process.



Fig. 2 showing a sample design of a chair.

Task:

Generate the required working drawings to guide the production process.