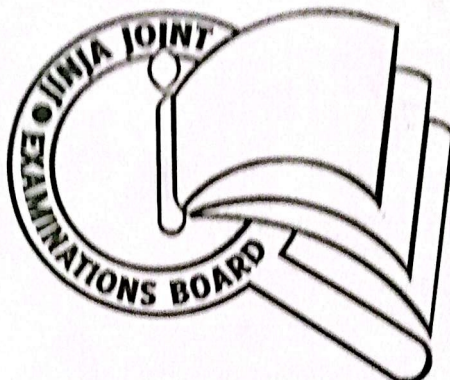


S15/3
PHYSICS
Paper 2
Jul/Aug 2025
2 hours



JINJA JOINT EXAMINATIONS BOARD

Uganda Certificate of Lower Secondary Education
MOCK EXAMINATIONS - JULY / AUGUST 2025

PHYSICS

**Paper 2
Practical**

2 hours

INSTRUCTION TO CANDIDATES:

This paper consists of two examination items.

*Answer **one** item in all.*

*Any additional item answered will **not** be scored.*

*Candidates are **not** allowed to start working with the apparatus for the **first quarter of an hour**. This time is to enable candidates; read the items thoroughly, checking for the apparatus they will need and plan appropriately.*

A graph paper will be provided.

Mathematical tables and silent non-programmable calculators may be used.

Item 1

A Security company requires bows and arrows to be used by their Askaris usually deployed for night guarding duties. The arrow heads should have a mass in the range of 20g to 40g for the company to buy.

A blacksmith in your neighbourhood makes bows and arrows and has won the tender to supply the company with the weapons. He makes arrow heads from nails, but he is not certain if the nails he has meets the requirements of the company. He has provided you with a sample nail seeking for your help.

Task:

Help the blacksmith to determine whether the nails he has will be able to meet the expectations of the company.

Item 2

A group of Form one students have a project of making a telescope and one of the lenses they need to use is a convex lens having a focal length in the range of 13.0 cm to 17.0 cm. They have failed to get the lens from the laboratory and have requested their class teacher to buy the lenses for them.

The class teacher bought lenses which had no labels and the students are doubtful if the lenses will be able to serve the purpose. You have been provided with one of the lenses.

Task:

Conduct a scientific investigation to establish whether the lenses bought by the class teacher are suitable for the project.