

443/3 Instr. to Sc.
AGRICULTURE PROJECT
Paper 3
Jan. - July 2026



THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate of Secondary Education

AGRICULTURE PROJECT

Paper 3

Instructions to Schools

Each school presenting candidates for Agriculture (443) in the KCSE examination for the year 2026 will produce adequate copies of this document. One copy of the document will be for the Head teacher and the others for the teacher in charge of Agriculture project hereafter referred to as the Agriculture teacher and the candidates.

The Head teacher and the Agriculture teacher should each read the document carefully. Relevant information should then be conveyed to the candidates as soon as possible to enable them to carry out the project in good time.

The Agriculture Teacher will mark all candidates' projects.

The projects should be accessible to authorised KNEC monitoring agent(s).

This paper consists of 4 printed pages.

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Turn over

1 PROJECT TASK

In your school locality, livestock farmers face challenges such as high feed costs, water scarcity, disease outbreaks, and market price fluctuations—problems worsened by climate change (erratic rainfall, floods, droughts, heat/cold stress). Analyse the locality, design and implement a sustainable livestock rearing enterprise that addresses the issues identified by improving production efficiency, adding value to products, and creating a marketing and sales strategy that ensures affordability and profitability.

2 PROJECT MILESTONES

2.1 Milestone I (Upload by 31st March 2026)

2.1.1 January — Locality Analysis & Problem Identification

Individually, map out the available resources (such as land, water, and feed), assess climate suitability, and identify challenges that hinder livestock production. Identify popular livestock products in the area. Understand consumer preferences such as quality, freshness, packaging, and price sensitivity. Determine price trends and note seasonal variations. Estimate demand volume by observing sales in local markets. Identify target customers like households, restaurants, schools, or retailers. Check competitor presence and find gaps you can fill (e.g., value-added products). Forecast future demand based on population growth, income levels, and dietary trends. Generate a report for presentation to your group. A video recording of the presentations in the group should be saved in an **electronic project portfolio maintained by the group**.

2.1.2 February — Solution Design & Project Proposal

In your groups of up to five members, analyse the different enterprises presented based on profitability, resource requirements (land, water, feed, labour), market demand, environmental impact, and sustainability. Select the enterprise that best solves the problem and explain why. The group should prepare a presentation to the class on how they arrived at the project chosen. The presentation should have details on name of the project, why it was selected, what the project aims to achieve, key phases and duration, inputs needed (capital, equipment, labour), and how the project will remain viable in the long term. Group members should take turns to present the different parts. A video recording of the group presentation to the class should be saved in the **electronic project portfolio maintained by the group**.

2.1.3 March — Infrastructure Setup & Stocking

Design and construct climate-smart livestock housing using locally available materials and responsibly stock the selected enterprise, ensuring animal welfare, biosecurity, and sustainability. Pictures and videos of the stocked enterprise should be saved in the **electronic project portfolio maintained by the group**.

2.2 Milestone II (Upload by 31st July 2026)

2.2.1 April–May — Rearing & Routine Management

Manage feeding, health care, record keeping, and start small-scale value addition trials. Implement age-appropriate feeding schedules, monitor feed intake and water quality, and conduct daily health checks. Follow vaccination and deworming schedules. Maintain

biosecurity measures, keep records on feed usage, health interventions, production/growth data, and mortality. Prepare a write up on the proposed value addition process and begin small-scale value addition trials. Copies of the typed or scanned write up and videos on routine management should be saved in the **electronic project portfolio maintained by the group.**

2.2.2 June — Value Addition, Marketing Strategy and Revenue Projections

Add value to livestock products and create a marketing plan to reach target customers effectively. Process products into higher-value forms ensuring quality standards and attractive packaging. Identify target customers (local markets, retailers, online buyers). Set the price ensuring profit is earned, promote the product (social media, flyers, word-of-mouth). Define distribution channels (farm gate, delivery, partnerships). Estimate production costs, selling prices, and expected revenue. Pictures, videos and write ups on value addition should be saved in the **electronic project portfolio maintained by the group.**

2.2.3 July — Marketing, Sales & Final Reporting

Sell products, measure success, and share results. Use the planned channels (social media, local markets, partnerships) to market and sell processed products. Record sales data (quantity, revenue, customer feedback). Analyse performance by calculating profit and projecting sustainability. Compare actual results against the projected revenues. Present findings and lessons learned to stakeholders/community. Individually prepare a 3–5-minute reflection video clip on what you have learned, challenges encountered, and what should be done differently in future projects. Pictures, videos on marketing, sales, and reflection on the project should be saved in the **electronic project portfolio maintained by the group.**

2.3 Each group project identification. Each group’s project should be identified by a poster showing the following:

- 2.3.1 Group number (1, 2, 3, ...)
- 2.3.2 Names of Group members
- 2.3.3 Index Numbers of Group Members.

| GROUP NUMBER | | |
|--------------|------|--------------|
| MEMBERS | | |
| No. | Name | Index Number |
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |

NOTE

Each group should rear livestock species of their choice but selected from these options: rabbits (2 per group), chicken (2 per group), pigs (2 per group), goats/sheep (1 per group).

- 2.4 The school should provide adequate security for the candidates' project.
- 2.5 The project must be seen and treated as an examination. The scores awarded by the agriculture teacher must be objective and confidential.
- 2.6 The agriculture teacher should assess each candidate's project from time to time using the marking scheme and timelines provided by KNEC and enter the marks in the individual candidate project assessment sheets. It is important that the marks are entered in the project assessment sheets immediately after each assessment.
- 2.7 The score awarded to the group should be transferred to each member of the group.
- 2.8 All the project assessment sheets must be kept under lock and key in the School Principal's office in a sealed envelope. They should be made available only to the agriculture teacher whenever the teacher is going to assess the project or an authorized KNEC agent. The sheets must be returned to the School Principal immediately after each assessment.
- 2.9 The School Principal should check to ensure that scores are recorded in the assessment sheets after every assessment. In the absence of the School Principal, the Deputy School Principal should be in custody of the documents.
- 2.10 The candidate scores on the project, together with pictorial evidence of the entire school project status will be electronically submitted to KNEC twice. Milestone I by 31st March 2026 and milestone II by 31st July 2026.
- 2.11 The agriculture teacher should transfer the total score of each candidate from the assessment sheet to the Manual Mark Sheet. The scores, together with a photograph showing the project status for the entire class at the time the last assessment was done should be uploaded on the KNEC Portal. The photograph should be in .gif or .jpeg format. It should capture the school Principal, Agriculture teacher and candidates standing at their respective projects in full school uniform. This should be done following the timelines provided.
- 2.12 The index numbers of candidates should be entered in assessment sheets and manual mark sheets in ascending order ensuring that all candidates have the same Index Numbers as in the final examination.
- 2.13 The KNEC Portal will only be accessible for the uploading of scores from 1st to 31st March 2026 for milestone I and 1st to 31st July 2026 for milestone II. The scores once uploaded cannot be accessed for alteration.
- 2.14 The Agriculture Teacher should write a brief report about the centre using the centre report form provided by KNEC.
- 2.15 The project implementation and assessment should be completed by the end of July 2026.
- 2.16 At the end of the project, the School Principal must ensure that the Assessment Sheets and Manual Mark Sheet are duly filled, signed, and stamped. All the candidates' Agriculture Project Declarations, Project Assessment Sheets, Manual Mark Sheets and Project Report Form for the centre should be packed and handed over to the Sub-County Director of Education at the end of the first week of August 2026.
- 2.17 The Sub-County Director of Education will then hand over all the documents to the Kenya National Examinations Council.**