

# THE KENYA NATIONAL EXAMINATION AND ASSESSMENT PREDICTION SERIES

Candidate's Name		Assessment Number	
School Name		School Code	
Candidate's Signature		Date	

## KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

812/2

PRETECHNICAL STUDIES (project)

PAPER 2

TERM 2 ENDTERM 2025

Time: 1 hour 40 minutes

Duration: 1 month

### INSTRUCTIONS TO CANDIDATES

- ♣ You are supposed to work in groups of 4 to 5 learners.
- ♣ Each member of the group is expected to be actively involved in the implementation of the project.
- ♣ Use locally available materials in the implementation of the project as much as possible.
- ♣ In case of any clarification, seek help from your subject teacher.
- ♣ Your project will be assessed based on the criteria outlined in the tasks below.

### For official use only

Task	Question Numbers	Maximum Score	Learner's Score
Task 1: Technical Skills	1, 2, 3, 4	14	
Task 2: Business/Entrepreneurship	5, 6	3	
Task 3: ICT/Computer Studies	7, 8	3	
<b>TOTAL SCORE</b>		<b>20</b>	

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

-PRETECHNICAL STUDIES-

CBE

**PROJECT SCENARIO:**

Your group has decided to make a useful item for the school or home that involves joining different materials and requires some planning. You will design, make, and present a **Simple Tool Holder** (e.g., for keeping pens, rulers, or small hand tools organized).

**TASK 1: Technical Skills (14 Marks)**

**1. Design and Planning:**

- a) As a group, brainstorm and agree on a design for your simple tool holder. Consider its shape, size, and how it will hold different items.
- b) Make a freehand pictorial sketch of your chosen design. The sketch should clearly show the overall appearance of the tool holder and indicate approximate dimensions for the main parts. (4 marks) (*Space for sketch*)
- c) List the main materials you will use to construct the tool holder (e.g., pieces of wood, plastic containers, cardboard tubes, wire). (2 marks)

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**2. Material Preparation and Tool Selection:**

- a) Based on your chosen materials, list at least four appropriate hand tools you will need for marking, cutting, shaping, and joining the parts of your tool holder. (4 marks)
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- b) Briefly describe one safety precaution you must observe when using one of the tools you listed that has a sharp edge. (1 mark)

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**3. Construction:**

- a) Carefully measure, mark out, and cut the pieces according to your design sketch using the selected tools.
- b) Assemble the cut pieces using appropriate joining methods (e.g., glue, nails, screws, tape).
- c) Apply a simple finish to your tool holder (e.g., sanding, painting, covering) to improve its appearance and durability.
- d) **Submission:** Present your completed Simple Tool Holder. (Marking will be based on accuracy of construction, stability, and finish). (3 marks)

## **TASK 2: Business/Entrepreneurship (3 Marks)**

### **5. Usefulness and Cost:**

- a) Explain one way your tool holder is useful for organizing items. (1 mark)

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- b) If you were to make more of these, suggest two factors that would determine the cost of making one tool holder. (2 marks)

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## **TASK 3: ICT/Computer Studies (3 Marks)**

### **7. Documentation and Presentation:**

- a) Take clear photos or short video clips during the different stages of your project (design, cutting, joining, finishing). (1 mark)
- b) Create a simple electronic document (e.g., using word processing software) or a digital poster that includes the photos/videos taken, showing the steps you followed to make the tool holder. (2 marks)