

CONFIDENTIAL GUIDE FOR TEACHERS

THE KENYA NATIONAL EXAMINATION AND ASSESSMENT PREDICTION SERIES

Teacher's Name		TSC NO.	
School Name		School Code	
Teacher's Signature		Date	

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

912/2

PAPER 2 (project)

TERM 2 ENDTERM 2025

1. PRETECHNICAL STUDIES (PROJECT)

Project Scenario: Multi-purpose Desk Organizer

Overall Guidance for Teachers:

- The aim of this paper project is to give learners practical skills and competencies required at junior school level. This is in line with preparing learners for National Examinations and future careers thereafter.
- This is a group project. Emphasize collaboration and active participation from all members.
- Encourage learners to be innovative and use locally available materials.
- The duration of 1 month allows for iterative design, construction, and refinement.
- Safety is paramount. Ensure learners are aware of and practice safety precautions, especially when handling tools.
- Assessment should be ongoing, observing group dynamics, individual contributions, and the final product.

Task 1: Technical Skills (14 Marks)

1. Design and Planning:

a) Brainstorming and Design Agreement:

Teacher's Role: Facilitate brainstorming sessions. Guide groups to consider functionality, aesthetics, material constraints, and the target user (learner/teacher). Ensure they agree on a clear design before proceeding.

Expected Outcome:

A brief discussion/agreement among group members on the chosen design.

b) Freehand Pictorial Sketch (4 marks):

Teacher's Role: Look for clarity, proportionality, and inclusion of approximate dimensions. The sketch should be a realistic representation of their intended product.

Marking Guidance: 2 marks for a clear, recognizable pictorial sketch of a multi-purpose desk organizer. 2 marks for indicating approximate dimensions for main parts (e.g., length, width, height of compartments).

Common Challenges: Learners may struggle with accurate representation or dimensioning. Guide them to understand the importance of clear communication through sketching.

c) List of Main Materials (2 marks):

Teacher's Role: Guide learners to list materials that are genuinely locally available and suitable for the project. Encourage variety.

Marking Guidance: 1 mark for listing 2-3 appropriate materials. 2 marks for listing 4 or more appropriate and relevant materials (e.g., cardboard, wood offcuts, plastic bottles, thick paper, fabric scraps, recycled cans).

Expected Outcome: A list of at least four appropriate materials relevant to the design.

2. Material Preparation and Tool Selection:

a) List of Appropriate Hand Tools (4 marks):

Teacher's Role: Ensure learners link tools to specific processes (marking, cutting, shaping, joining). This shows understanding of tool function.

Marking Guidance: 1 mark for each correct and appropriate hand tool listed (max 4 marks).

Examples: Ruler, pencil, scissors, utility knife, saw (hand saw, coping saw), sandpaper, glue gun, hammer, screwdriver, pliers.

Expected Outcome: A list of at least four hand tools suitable for their chosen materials and design.

b) Safety Precaution for Cutting Tools (1 mark):

Teacher's Role: Emphasize the importance of safety. Discuss potential hazards and correct usage before they begin construction.

Marking Guidance: 1 mark for a clear and relevant safety precaution (e.g., "Always cut away from your body," "Use a cutting mat," "Keep fingers clear of the blade," "Ensure the tool is sharp").

Expected Outcome: A concise and correct safety precaution.

3. Construction and Submission:

a), b), c) Construction Process:

Teacher's Role: Monitor groups during construction. Provide guidance on measuring, cutting techniques, joining methods, and finishing. Encourage neatness and attention to detail. This is an ongoing observation.

Submission of Completed Organizer (3 marks):

Teacher's Role: Assess the final product based on the criteria.

Marking Guidance:

1 mark for accuracy of construction (Does it resemble the sketch? Are measurements generally correct?).

1 mark for quality of joints (Are the parts securely joined? Is it stable?).

1 mark for finish (Is it neatly sanded, painted, varnished, or decorated? Is it appealing?).

Expected Outcome: A functional, stable, and reasonably well-finished multi-purpose desk organizer.

Task 2: Business (3 Marks)

5. Market and Pricing:

a) Reasonable Selling Price (1 mark):

Teacher's Role: Guide learners to consider material costs, time invested, and potential market (school community) when suggesting a price.

Marking Guidance:

1 mark for a realistic and justified selling price (e.g., Ksh 50 - Ksh 200, depending on materials and complexity). A price that is either too low (undervaluing effort) or too high (unrealistic for the market) should be questioned.

Expected Outcome: A stated selling price.

b) Attractive Qualities for Buyers (2 marks):

Teacher's Role: Encourage learners to think from a consumer's perspective. What makes a product desirable?

Marking Guidance: 1 mark for each relevant quality (max 2 marks).

Examples: Durability, aesthetic appeal, functionality (holds various items well), unique design, made from recycled materials (eco-friendly), good finish, stability.

Expected Outcome: Two distinct qualities that highlight the product's value.

Task 3: Computer Studies (3 Marks)

7. Documentation and Presentation:

a) Taking Photos/Video Clips (1 mark):

Teacher's Role: Ensure learners capture the process, not just the final product. Guide them on taking clear, well-lit images/videos.

Marking Guidance:

1 mark for clear photos/videos showing at least 3 distinct stages of the project (e.g., design, cutting, assembly, finishing).

Expected Outcome: A collection of digital visual evidence of the project's development.

b) Creating Electronic Presentation/Digital Poster (2 marks):

Teacher's Role: Guide learners on using appropriate software (e.g., Google Slides, PowerPoint, Canva, Word document with embedded images). Focus on organization and visual communication.

Marking Guidance:

1 mark for successfully creating a simple electronic presentation/digital poster.

1 mark for including the photos/videos and logically showcasing the process and final product.

Expected Outcome:

A simple digital presentation or poster effectively documenting the project.

General Notes for Exams:

- ☞ **Teacher Supervision:** Continuous supervision is crucial, especially for practical aspects involving tools, heat, and chemicals.
- ☞ **Differentiation:** For group projects, encourage varied roles for learners with different strengths.
- ☞ **Record Keeping:** Ensure learners are diligently recording their observations and data as they go.
- ☞ **Post-Practical Discussion:** A follow-up discussion helps reinforce the concepts and correct any misconceptions.
- ☞ **Cleanliness:** Emphasize keeping the workspace clean and tidy throughout and after the practical.
- ☞ **Fairness:** Ensure equal access to materials and tools for all groups/learners.

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