

Name: _____ Adm Number: _____

Stream: _____ SCHOOL: _____

Candidate's Signature: _____

449/2

Drawing & Design

PAPER 2

OCTOBER 2022

TIME: 2½ HOURS



NYAHOKAKIRA MOCK EXAMINATIONS 2022

Kenya Certificate of Secondary Education

OCTOBER

Instructions to Candidates

- a. You should have the following materials for this examination:**
 - *4 sheets of drawing paper size A₃*
 - *Drawing instruments*
- b.** This paper has **ONE COMPULSORY** question.
- c.** This paper is to be issued to the candidates **30minutes** before the examination starts.
- d.** The candidates are advised to spend this time **understanding the design problem** and **planning the work** on one of the drawing papers provided.
- e. This paper consists of 2 printed pages.**
 - Candidates should check the question to ascertain that both pages are printed as indicated and that no question is missing.
- f.** Candidates should answer the questions in English.

DESIGN PROBLEM: (40 marks)

It is normal practice for many people when at home to do a bit of washing for themselves after they had bath and hang the washing up somewhere in the bathroom to dry. Design a racking system to allow small selection of clothes to be hung and dry in the bathroom.

1. The system should be collapsible to give free space for bathing.
2. It should be having several clothe lines
3. It should have a provision for height adjustments to allow usage by persons of different heights.
4. There should be a provision for holding the bathing soap.

REQUIREMENTS

1. Make rough sketches of two possible designs. **(6marks)**
2. Select one of the designs in **(1)** above and make a labeled refined pictorial sketch. **(13marks)**
3. Make detailed sketches of the mechanisms used in each of the considerations above. **(14marks)**
4. Name any two materials used in the design and;
 - i. State where each is used;
 - ii. State the reason why each of the materials in **(i)** above is preferred. **(4marks)**
5. State three methodes of mjoining the main parts of the article together. **(3marks)**