**TERM 2 - 2023**

**DRAWING AND DESIGN**

**PAPER 2**

**FORM FOUR (4)**

**Time: 2**$\frac{1}{2}$ **Hours**

**Name: …………………………………………………………. Adm No: ……………….**

**School: ……………………………………………………….. Class: …………………..**

**Signature: …………………………………………………….. Date: …………………...**

**Instructions to candidates**

*(a). You should have the following materials for this examination:3 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 30 minutes before examination starts.*

*(d).The candidates are advised to spend this time undertaking the design problem and planning the work on one of the drawing papers provided.*

*(e).This paper consists of two printed pages.*

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

*(g).Candidates should answer the questions in English.*

*This paper consists of 2 printed pages.*

*Candidates should check the question paper to ensure that all papers are printed as indicated and no questions are missing.*

**DESIGN PROBLEM (40 Marks)**

The school furniture being used in primary schools does not allow pupils to be independent when writing notes because they are being share by a number of pupils.

 Design a chair cum desk with the following Considerations:

1. The furniture should be raised and lowered depending on the person using.
2. The top should have provision for inclining at various angles to enable the pupils to write with ease.
3. It should have a lockable drawer for keeping extra books.
4. It Should be moved on the floor with ease without making noise.

**REQUIREMENTS**

1. Make free hand sketches of two possible designs of the device (6mks)

b). Make a refined pictorial drawing of the selected design and label the main parts (16mks)

c) Produce exploded pictorial drawings showing the working mechanisms for consideration 1, 2, 3 and 4 above. (12mks)

d) State any three materials used in your design giving reasons for choice of each (3mks)

e) State three methods used in joining the parts together giving reasons for choice of each (3mks)