

# **KENYA NATIONAL EXAMINATION COUNCIL KCSE, 2014**

## **DRAWING AND DESIGN PAPER 2 ANALYSIS**

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### 3.7.2 Drawing and Design Paper 2 (449/2)

This paper is always composed of one design question which must be attempted by all the candidates. In the year 2014, the question required the candidates to design a suitable ladder with the following considerations:

- It should provide a reasonably strong grip when leaning on a cylindrical column.
- It should have rungs (steps) that make the user comfortable when working.
- It should have provision for extension as the height increases
- It should have provision for folding for ease of storage and transportation
- It should provide a firm grip to the ground.

In their responses, the candidates were expected to present rough sketches of two possible designs.

In the second requirement, the candidates were to select one of the two possible designs and refine it into an exploded pictorial drawing.

The third requirement called for the candidates to make detailed sketches of suitable mechanisms to cater for each of the considerations cited above.

#### **Advice to Teachers:**

Give the students a lot of practice in sketching exploded views and presenting various ideas in form of drawings.

Candidates also need sufficient exposure to various designs in order to develop the desired concepts.

Teachers should insist on neatness, line work and proportionality in all the drawing assignments given to the students. Teachers should also ensure that the entire syllabus is covered including topics like materials and methods of joining different parts of objects.

If possible they need to organize for academic tips to industry to enable students visualize better how some mechanisms work in manufacturing.