THE KENYA NATIONAL JUNIOR EXAMINATIONS AND ASSESSMENT SERIES

705/2 INTEGRATED SCIENCE (Practical)

PAPER 2

CONFIDENTIAL INSTRUCTIONS & TEACHER'S GUIDE

GENERAL INSTRUCTIONS TO THE TEACHER

1. This paper consists of **two practical tasks**.
2. Teachers must ensure that:
   i. Each candidate has a copy of the practical question paper.
   ii. All materials listed in this document are prepared and available before the examination begins.
   iii. Candidates work individually.
   iv. Candidates are supervised at all times during the assessment.
3. The **indicator solution (Solution X)** must be tested before the exam to ensure it gives expected colour changes in acidic and basic solutions.
4. Ensure all **solutions are clearly labeled** (A, B, C, D, E, Lemon Juice, Ash Solution, X).
5. The **wooden blocks for Task 2** must be of uniform size for all candidates or their sizes recorded and indicated on a teacher's master list for consistency in marking.

MATERIALS REQUIRED PER CANDIDATE

Each candidate should be provided with the following:

For Task 1: Testing Acidity/Basicity (20 marks)

Item	Quantity
Solution X (indicator – e.g., hibiscus, red cabbage or litmus)	~20 ml
Lemon juice (acidic solution)	~10 ml
Wood ash solution (basic)	~10 ml
Test solutions A, B, C, D, and E	~10 ml each
Test tubes or small beakers	7 (1 per solution)
Droppers/pipettes	1 or more
Measuring cylinder (10–25 ml)	1
White tile or background	1 (optional)
Tissue or cloth for wiping spills	As needed

Suggested contents of test solutions: