Candidate's Name		**Assessment Number**	
School Name		**School Code**	
Candidate's Signature		**Date**	

THE KENYA NATIONAL EXAMINATIONS COUNCIL
KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

KJSEA
905/2
INTEGRATED SCIENCE (*Practical*)
PAPER 2
SAMPLE PAPER
JANUARY 2025
TIME:1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your **name** and **assessment number** in the spaces provided above.
2. Write the **name** and **code of your school** in the spaces provided above.
3. **Sign** and write the **date** of the assessment in the spaces provided above.
4. This paper consists of **2** questions.
5. Answer **BOTH** questions in the spaces provided on this **QUESTION PAPER**.
6. Do **NOT** remove any page from this question paper.
7. Answer the questions in English.

For official use only

Task	**Task 1**	**Task 2**
Question	**1**	**2**
Maximum Score	20	10
Candidate's Score		

This paper consists of 4 printed pages.
Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

QUESTION ONE

You are required to use the solutions **A**, **B**, **C**, **D** and **E** provided as test solutions. You will also use solution **X** (an indicator) to determine whether the test solutions are **acidic**, **basic** and **neutral**.

a) Add about 2 cm^3 of solution **X** to about 5 cm^3 of lemon juice (acidic solution) and record the observed colour change as the characteristic colour change of the indicator in an acidic solution.

b) Add about 2 cm^3 of solution **X** to about 5 cm^3 of wood ash solution and record the colour change as the characteristic colour change of the indicator in a basic solution.

c) Add about 2 cm^3 of solution **X** to 5 cm^3 of each of the test solutions **A** to **E**, one at a time and record the colour change in the Table below. (10 marks)

Table

Substance: Solution X plus;	**Observation**	**Conclusion**
Lemon juice		
Wood ash solution		
Test solution **A**		
Test solution **B**		
Test solution **C**		
Test solution **D**		
Test solution **E**		

d) Name **one** solution that could be used in place of:

(i) lemon juice; (1 mark)

_____

_____

(ii) ash solution. (1 mark)

_____

_____

e) Name **three** basic science skills that are necessary to carry out this practical. (3 marks)

_____

_____

_____

f) State **two** safety precautions you took during the practical. (2 marks)

_____

_____

_____

g) Name **three** laboratory instruments necessary for this practical. (3 marks)

_____

_____

_____

QUESTION TWO

You are provided with the following:

- A ruler
- A wooden block

Measure the dimensions of the wooden block:

a) Width _____cm. (1 mark)

b) Length_____cm. (1 mark)

c) Height_____cm. (1 mark)

d) (i) State the type of physical quantity represented by length. (1 mark)

_____

(ii) Give a reason for your answer in i. above. (1 mark)

_____

e) Determine the volume of the wooden block in cm^3. (3 marks)

_____

_____

_____

f) Express the volume of the wooden block in it's SI units. (2 marks)

_____

_____

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