

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

GRADE 8

TERM 1

MARCH 2026

INTEGRATED SCIENCE CKEAB 003

LEARNER'S DETAILS

Name: _____

School: _____

Assessment Number: _____ Date: _____

School Code: _____ Signature: _____

INSTRUCTIONS TO LEARNERS

1. Write your Name and Assessment Number in the spaces provided.
2. Write the Name and Code of your School in the spaces provided.
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**.



SCORING GRID

Section	Questions	Maximum Score	Candidate's Score	Performance Scale
TASK 1	1	10		
TASK 2	2	20		
GRAND TOTAL		30		

This paper consists of 8 printed pages.

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

TURN OVER

-INTEGRATED SCIENCE-

-003-

- Paper Code 905/2-

QUESTION 1: PHYSICS (10 MARKS)

You are provided with the following apparatus:

- A. Two dry cells
- B. Connecting wires
- C. One small electric bulb
- D. A switch
- E. A bulb holder

Task

a) Name the apparatus provided. (5 marks)

- i) _____
- ii) _____
- iii) _____
- iv) _____
- v) _____

b) Using the apparatus provided:

i) Draw a neat diagram of a **simple electric circuit** showing all the apparatus correctly connected. (3 marks)

ii) State **one function** of the switch in the circuit. (1 mark)

_____.

iii) State **one safety precaution** to observe when handling electrical components. (1 mark)

_____.

QUESTION 2: CHEMISTRY (20 MARKS)

You are provided with the following materials and apparatus:

- i. A mixture of sand and salt
- ii. Beaker
- iii. Stirring rod
- iv. Filter funnel
- v. Filter paper
- vi. Evaporating dish
- vii. Heat source
- viii. Water

Task

a) Identify the substances present in the mixture. (2 marks)

- i) _____
- ii) _____

b) Describe the procedure you would use to separate the salt from the sand.

(Write the steps in the correct order.) (8 marks)

- i) _____
- ii) _____
- iii) _____
- iv) _____

c) Name the separation methods used in the experiment. (4 marks)

- i) _____
- ii) _____

d) State two observations made during the experiment. (4 marks)

- i) _____
- ii) _____

e) State two daily life applications of separation of mixtures. (2 marks)

i) _____

ii) _____



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MARKING SCHEMES

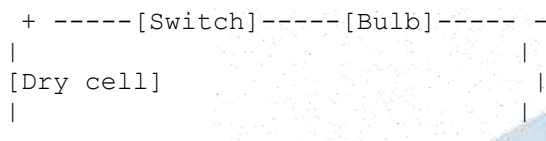
QUESTION 1: PHYSICS (10 MARKS)

a) Name the apparatus provided (5 marks)

- i) Two dry cells – **Cell / Battery**
- ii) Connecting wires – **Copper wires / electrical wires**
- iii) Small electric bulb – **Bulb / Lamp**
- iv) Switch – **Switch**
- v) Bulb holder – **Bulb holder / Lamp holder**

b) Using the apparatus provided

i) Diagram of a simple electric circuit (3 marks)



(Or draw a neat closed circuit showing battery, wires, switch, and bulb connected in series.)

ii) Function of the switch (1 mark)

- To open or close the circuit, controlling the flow of electricity.

iii) Safety precaution (1 mark)

- Do not touch live wires with bare hands.
- Ensure dry hands when handling electrical components.

QUESTION 2: CHEMISTRY (20 Marks)

a) Identify the substances in the mixture (2 marks)

- i) Salt
- ii) Sand

b) Procedure to separate salt from sand (8 marks)

- i) Add water to the mixture of salt and sand in a beaker and stir.
- ii) Filter the mixture using a funnel and filter paper to separate sand from salt solution.
- iii) Collect the filtrate containing salt solution in a clean beaker.
- iv) Evaporate the water from the filtrate using a heat source to obtain salt crystals.

c) Name the separation methods used (4 marks)

- i) **Filtration** – to separate sand from salt solution
- ii) **Evaporation** – to recover salt from the solution

d) Observations made during the experiment (4 marks)

- i) Sand remains on the filter paper
- ii) Salt crystals form in the evaporating dish after heating

e) Daily life applications of separation of mixtures (2 marks)

- i) Purifying drinking water by filtration
- ii) Separating salt from seawater for consumption

