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KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

TERM 1 2025 MID-TERM EXAM

GRADE 9 – INTEGRATED SCIENCE 905/2

(Paper 2: Practical)

Time: 1 hour 30 mins

NAME: _____

SCHOOL: _____

STREAM: _____ DATE: _____

INSTRUCTIONS

a) Write your name, school, stream and date in the spaces provided above.
b) This paper consists of **two** questions: **1** and **2**.
c) Answer **BOTH** questions in the spaces provided on this QUESTION PAPER.
d) Do **NOT** remove any page from this question paper.
e) All answers **MUST** be given as per the guidelines of each question.
f) Answer the questions in English.

LEARNER'S SCORE

SCORES		TOTAL
1 (Out of 20)		
2 (Out of 10)		

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

QUESTION ONE

You have been provided with:

i. Two beakers
ii. Thermometer
iii. Stopwatch
iv. Source of heat
v. Liquid A
vi. Liquid B

Use the procedure below to carry out the experiment.

a) Place about 10 cm³ of Liquid A in a beaker.
b) Insert the thermometer in the beaker, making sure the bulb is immersed in Liquid A.
c) Record the initial temperature of Liquid A at 0 minutes in the table below.
d) Heat the apparatus using a source of heat.
e) Observe and record the temperature at which the water begins to boil in the table below. (3 marks)

Time (Minutes)	0	1	2	3	4	5
Temperature (°C)						

f) Liquid A starts boiling at _____ °C. (2 marks)

g) What conclusions can we make about Liquid A from the table above? (3 marks)

_____

_____

_____

_____

_____

h) Place about 10 cm³ of Liquid B in a beaker.
i) Insert the thermometer in the beaker, making sure the bulb is immersed in Liquid B.
j) Record the initial temperature of Liquid B at 0 minutes in the table below.
k) Heat the apparatus using a source of heat.

l) Observe and record the temperature at which the water begins to boil in the table below. (3 marks)

Time (Minutes)	0	1	2	3	4	5
Temperature (°C)						

m) Liquid B starts boiling at _____ °C. (2 marks)

n) What conclusions can we make about Liquid B from the table above? (3 marks)

_____

_____

_____

_____

_____

o) Classify Liquids A and B as either distilled water or impure water. (2 marks)

i. Liquid A - _____

ii. Liquid B - _____

p) From the practical carried above, we can conclude that impurities _____ the boiling point of water. (2 marks)

QUESTION TWO

You are provided with the following:

i. Specimen J

ii. Specimen K

a) Draw specimen J and label the following parts in the space provided on the next page. (4 marks)

i. Margin

ii. Veins

iii. Tip

b) Specimen K is most likely to have been pluck from which plant? (1 mark)

_____

c) Name the types of roots of the plants from which the specimens were plucked from. (2 marks)

Specimen J – _____

Specimen K – _____

d) The green colouring matter present in the two specimens is known as _____. (1 mark)

e) What would happen if all leaves are removed from a plant? (2 marks)

_____

_____

_____

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