

JUNIOR SCHOOL ASSESSMENT TEST

**PIONEER MARK
SERIES**

GRADE EIGHT -2025 INTERGRATED SCIENCE

Name: _____
School: _____ ADM No. _____ Date: _____

ASSESSMENT RUBRIC: PERFORMANCE LEVEL

Exceeding expectation	Meeting expectation	Approaching expectation	Below expectation	Total score (%)

1. a) Distinguish between a homogenous mixture and a heterogenous mixture?

.....
.....
.....

b) Classify the following mixtures as heterogenous or homogenous. (3mks)

Mixture of water and oil.

.....

Mixture of sand and water.

.....

Mixture of milk and sugar.

.....

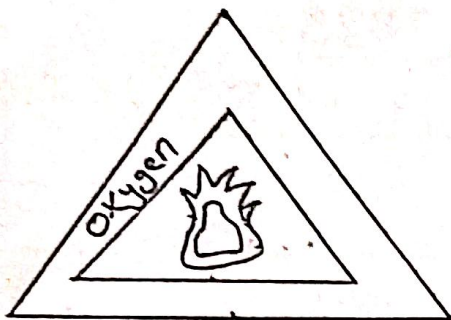
2. Define the term diffusion. (1mk)

.....
.....

3. Juma a grade 8 learner wants to know the uses of Gold. Write two uses of Gold you would tell him. (2mks)

.....
.....
.....

4. Mary saw the picture below on a wall of a building.



a) What does the picture represent? (1mk)

b) Identify the two unlabeled components. (2mks)

5. Write the chemical symbols of the following elements. (3mks)

Copper

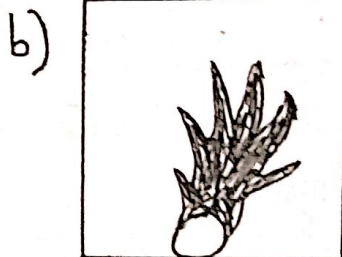
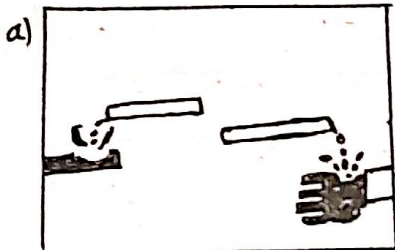
Carbon

Helium

6. Grade 8 learners in Ushindi Junior School were asked to discuss the applications of change of state of matter in daily life. Write down 3 applications of changes of state of matter they would have discussed. (3mks)

7. Why is a non-luminous flame preferred for heating in the laboratory? (2mks)

8. Identify the following hazard symbols. (2mks)



9. Calculate the volume of a wooden block with a length of 8cm, a width of 5cm and height of 6cm. Give your answer in SI units. (3mks)

10. Complete the table below to show various classes of fire and their causes. (4mks)

Class of fire	Causes
D	
	Ordinary combustible materials
F or K	
B	Electrical faults from live circuits

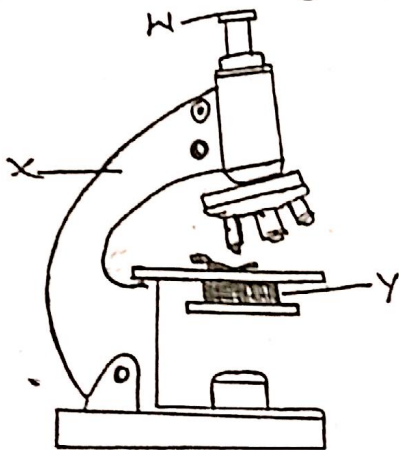
11. You have been appointed to advise learners and parents during a meeting on the safety measures to observe when handling electrical appliances. Write 3 safety measures you would mention.

.....

.....

.....

12. The diagram below shows a light microscope.



a) Name the parts labelled W, X, Z. (3mks)

W

X

Z

b) State the function of the part labelled Y (1mk)

.....

13. Complete the table below to show the colour of various commercial indicators in different solutions. (3mks)

Indicator	Colour in acidic solution	Colour in basic solution
Litmus		Blue
Phenolphthalein	Colourless	
Methyl orange		Yellow

14. You have been appointed to talk to people about ways of preventing kidney disorders in your church. Write Four things you would tell them. (4mks)

.....

.....

.....

.....

15. Classify the following changes as temporary physical change, temporary chemical change or permanent change. (4mks)

a) Heating candle wax

.....

b) Heating hydrated copper (II) sulphate

.....

c) Heating copper (II) nitrate.

.....

d) Heating potassium manganate (VII)

.....

16. Which force exists between the following poles of a magnet?

a) North pole and South pole. (1mk)

.....

b) South pole and South pole. (1mk)

.....

17. What is an element? (1mk)

.....

.....