



SCHOOL BASED ASSESSMENT

# JUNIOR SCHOOL

## INTEGRATED SCIENCE

### GRADE 8 - 2024

**JS2402**

Time: 1Hour 40 Minutes.

LEARNER'S NAME: \_\_\_\_\_

ASSESSMENT NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_

SCHOOL NAME: \_\_\_\_\_

#### INSTRUCTIONS TO THE LEARNER

Answer all the questions in the spaces provided.

#### For Teacher's Use Only.

	INTEGRATED SCIENCE
	QUESTION NUMBER. 1 - 17
LEARNER'S SCORE	
TOTAL SCORE (50MKS)	
PERFORMANCE LEVEL	

This question paper consists of 8 printed pages.

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TURN OVER



JS2402

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INTEGRATED SCIENCE GRADE 8

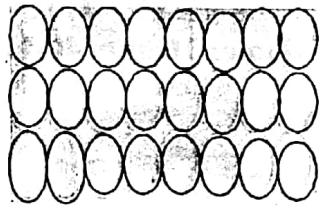
1. Grade 8 learners were discussing properties of matter. James was the group leader to give characteristics of solid. List down three points he gave. (3mrks)

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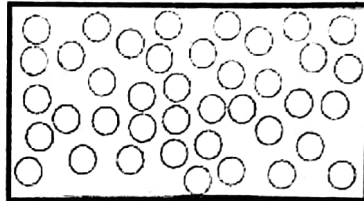
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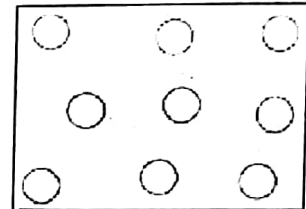
2. A teacher displayed 3 charts as shown below showing the 3 states of matter. Identify the three states of matter according to particles. (3mks)



A



B



C

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

3. Grade 8 learners used their digital devices to research more on density. The following day their teacher had the following questions. What was their possible correct answers given?

(a) What is density? (1mk)

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(b) The SI unit of density is \_\_\_\_\_ (1mrk)

(c) Density is calculated using a formula. Write down the formula. (1mrk)

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4. During power blackout, Frank used a candle to light his room. The wax melted and later became solid again. His brother explained to him it was a physical change. Name three other characteristics of temporary physical change. (3mrks)

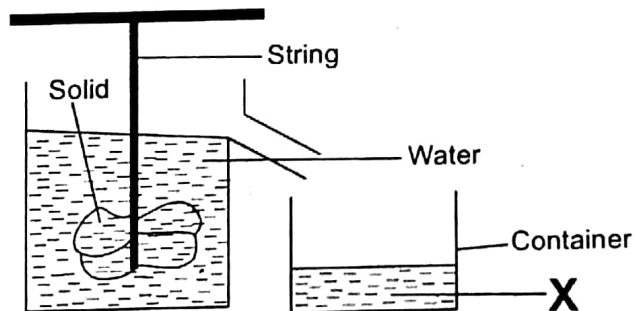
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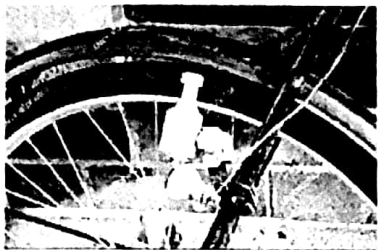
5. The experiment shown below was set up by grade 8 learners



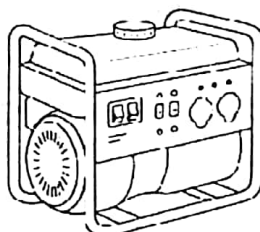
- (a) Liquid X represents the solid's \_\_\_\_\_ (1mrk)
- (b) The set up above shows solids have \_\_\_\_\_ (1mrk)
- (c) The container used above is known as \_\_\_\_\_ (1mrk)

6. Kamau accompanied his father to go and source for a source of electricity in their house.

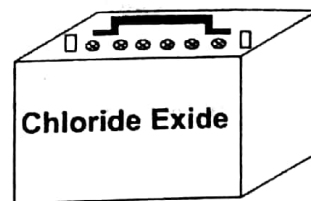
They saw the following sources.



A



B



C

(i) Identify the three sources shown above. (3mrks)

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

(ii) Which source is best for their new house? \_\_\_\_\_ (1mk)

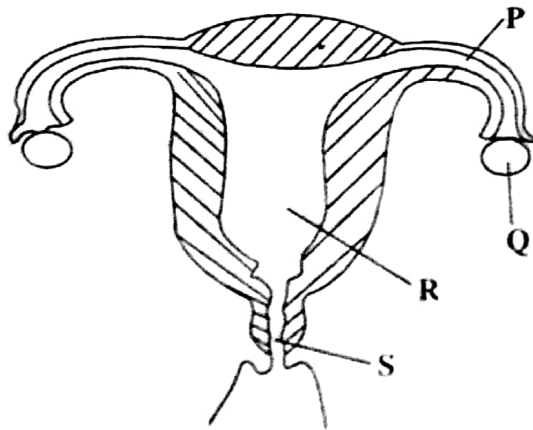
7. During discussion, Tom said crystals of copper. (II) sulphate contains water of crystallisation.

It is said to be \_\_\_\_\_ while white copper (II) sulphate powder does not contain water. It is \_\_\_\_\_ (2mrks)

8. Grade 7 learners discovered substances that have PH of less than 7 are \_\_\_\_\_

while those with greater PH of more than 7 are \_\_\_\_\_ (2mrks)

9. Tony downloaded the picture below during a research on fertilization and implantation.



(a) Name the parts labelled P, Q, R and S respectively. (4mrks)

P \_\_\_\_\_

Q \_\_\_\_\_

R \_\_\_\_\_

S \_\_\_\_\_

(b) Identify where the zygote is formed. \_\_\_\_\_ (1mrk)

(c) Implantation of the zygote occurs at part marked \_\_\_\_\_ (1mrk)

10. During an investigation by grade 8 learners on permanent chemical changes, they heated copper (II) nitrate. On heating, it changed the colour from \_\_\_\_\_ to \_\_\_\_\_ colour. (2mrks)

(b) The teacher asked the learners to list down other three characteristics of chemical changes.

What are their possible answers? (3mrks)

\_\_\_\_\_

\_\_\_\_\_

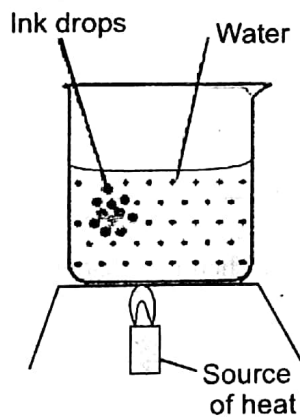
\_\_\_\_\_

11. Pure substances that cannot be split into simpler substances by chemical means are known as \_\_\_\_\_ (1mrk)

12. Bolt is one of the group leaders in their class. He drew the chart below showing elements and their symbols. Fill in the missing information. (4mks)

	Element	Symbol
i	Copper	
ii		Fe
iii	Silver	
iv		O

13. Grade 8 learners set up the experiment as shown below. After adding drops of ink, it spread.



This process shows \_\_\_\_\_ (2mrks)

14. Mr. Kamau asked his learners to define a compound. What is the correct answer given by the learner? (2mks)

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15. Learners of grade 8 downloaded the periodic table. During group discussion the following questions were to be answered.

(i) The building blocks of periodic table are known as \_\_\_\_\_

(ii) The vertical columns of periodic table are known as \_\_\_\_\_

(iii) The first element on periodic table is \_\_\_\_\_

(3mrks)

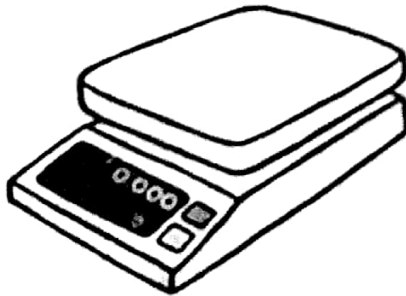
16. Judy an Agriculture Officer in Chuka university said alcohol is an example of a compound.

Give two other examples she might have named. (2mrks)

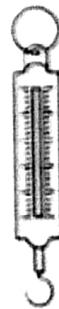
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17. Alex was asked to identify which apparatus is used for measuring mass and weight. (2mks)



B



C

(i) Apparatus B measures \_\_\_\_\_

(ii) Apparatus C measures \_\_\_\_\_