



THE KENYA NATIONAL EXAMINATIONS COUNCIL

SCHOOL BASED ASSESSMENT

INTEGRATED SCIENCE

Grade 8 – 2024

LEARNER'S NAME: _____

ASSESSMENT NUMBER: _____ DATE: _____

SCHOOL NAME: _____

INSTRUCTIONS TO LEARNERS

1. This paper consists of 8 questions.
2. Answer **ALL** the questions in the spaces provided.

The grid below is to be filled by the teacher after scoring the learner's work. During uploading, the teacher to upload the scores per task.

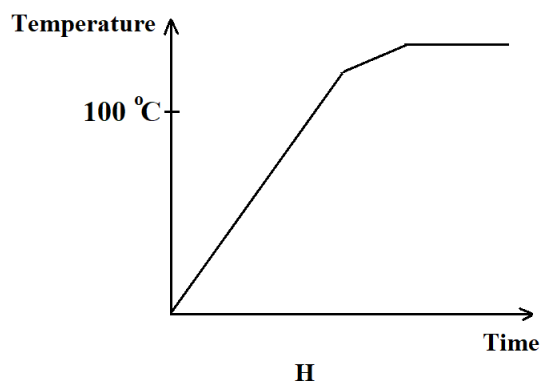
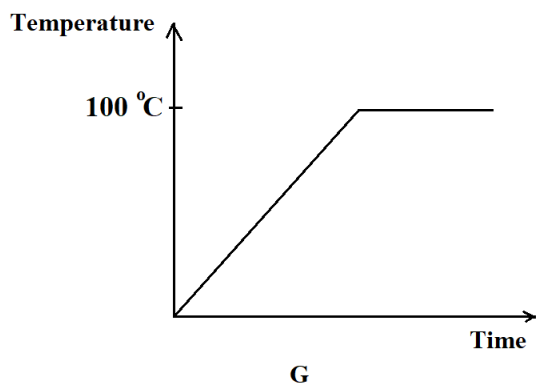
Tasks	Mixtures, elements, and compounds	Living Things and their environment	Force and Energy
Question Numbers	1 - 3	4 - 6	7 -8
Max. Score	10	9	6
Learner's Score			

This paper has 5 printed pages

1. Elements have common chemical symbols that are used across the world. Learners bought a product containing Iron, Silver and Copper from a shop. Match the elements found in the product with their correct chemical symbol. (3 marks)

Element	Symbols
Iron	Hg
Silver	Cu
Copper	Ag
	Fe
	Na

2. In an investigation on effects of impurities on boiling point of substances, learners separately heated equal volumes of distilled water and water from a river till they boiled. The heating curves obtained are as shown in the diagrams **G** and **H**.



- a) Identify the curve that represents water obtained from a river. (1 mark)

- b) Explain your answer in (a) above. (2 marks)

- c) State a reason why boiling is a physical change. (1 mark)

3. The picture below shows a school farm with dry maize.

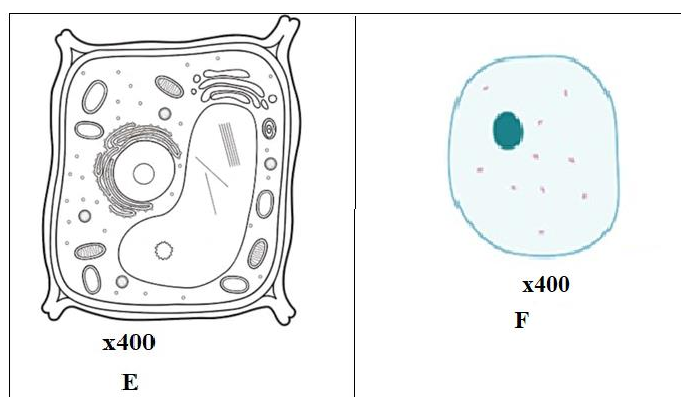


The maize accidentally caught fire. In order to control the fire, learners were asked to cut off a section of the maize crop.

a) Using the knowledge of the fire triangle, explain how the action taken helped to control the fire. (2 marks)

b) State another way the learners could have used to control the fire. (1 mark)

4. Cells of plants and animals appear differently when observed under a light microscope. The diagrams below were drawn by learners after observing cells obtained from plant and animal tissues under a light microscope. The magnification of each of the cell was given as x400.

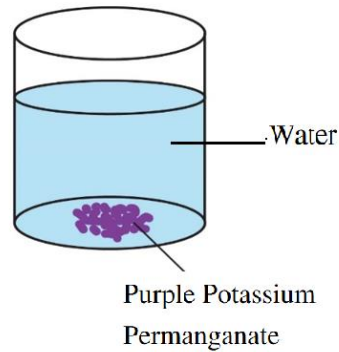


a) Identify the cell that was obtained from a plant tissue. _____ (1 mark)

b) Give a reason for the answer in (a) above. (1 mark)

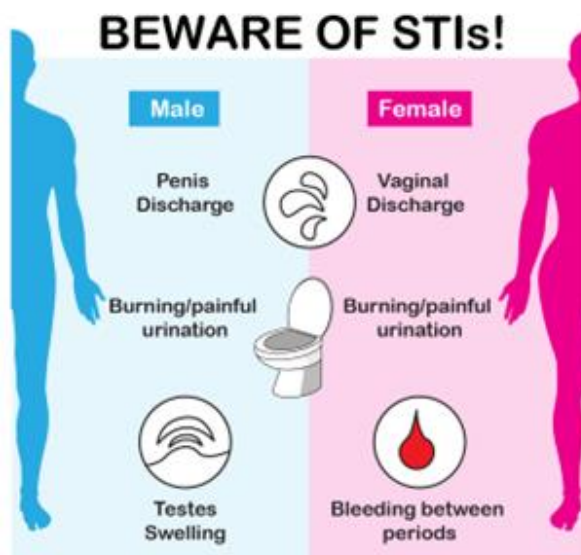
- c) State how the magnification of the cells was determined. (1 mark)
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5. Movement of materials in and out of the cells takes place through different processes. To demonstrate one of the processes, a learner used the set-up shown below.



- a) Name the process being demonstrated. _____ (1 mark)
b) Explain the observation made in the beaker after 10 minutes. _____ (2 marks)
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6. Sexually Transmitted Infections (STIs) show different signs and symptoms in humans. A group of learners drew the poster shown below to educate the school community on symptoms of a certain sexually transmitted infection in males and females.



- a) Name the STI whose signs and symptoms are shown in the poster. (1 mark)
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b) State **two** measures that can put in place to prevent the STI. (2 marks)

7. In a lesson to demonstrate change of energy from one form to another, a learner used a torch that uses dry cells. Use arrows to show energy transformation for the torch to produce light. (3 marks)

8. Pressure exerted by an object depends on the area on which the force is acting. The pictures below show types of shoes.



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a) Identify the type of shoes that would be suitable for walking on a sandy ground. (1 mark)

b) Explain your answer in (a) above. (2 marks)

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