

CHEMISTRY S.1

ITEM 1

Scenario

At St. Julian High School Gayaza, the Senior One students had just completed their first chemistry lesson. During break time, a group of students began discussing the subject. Brian complained, "I don't see why we have to study chemistry. I want to become a footballer, not a scientist." Aisha responded, "But chemistry is useful in many ways. Even in daily life, we use things that involve chemistry." Their teacher, Mr. Okello, overheard the discussion and decided to give them a task. He told them that many careers depend on chemistry, even those that seem unrelated at first. He also explained that chemistry helps people solve problems in areas like health, agriculture, and industry. He then asked the class to think about why they study chemistry and how it connects to different jobs in society

TASK

- (a) From the scenario above, list five reasons why we study chemistry. (05 scores)

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(b) Explain five careers that require knowledge of chemistry. (05 scores)

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ITEM 2

Scenario

At Green Valley Secondary School, Senior One students entered the science room for their first chemistry practical. Some students started touching chemicals and moving around carelessly. The teacher quickly reminded them that the room is special and has rules that must be followed to stay safe.

Task;

As a chemistry student, help the students understand the following as far as the chemistry laboratory is concerned;

(a) Define a laboratory. (02 scores)

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(b) List 3 areas where laboratories can be found. (03 scores)

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(c) State any five rules and regulations that are followed in a chemistry laboratory. (05 scores)

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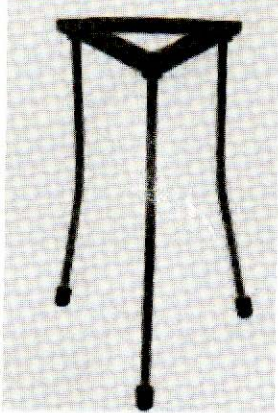
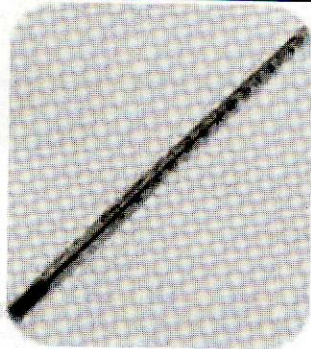
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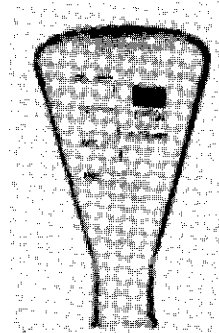
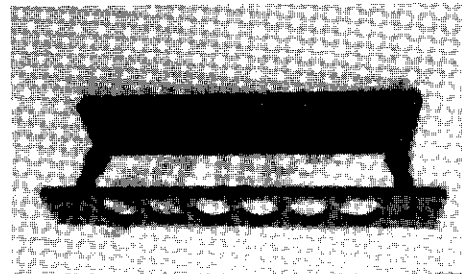
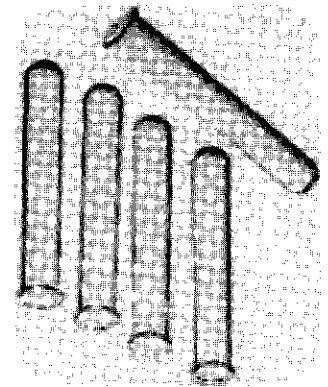
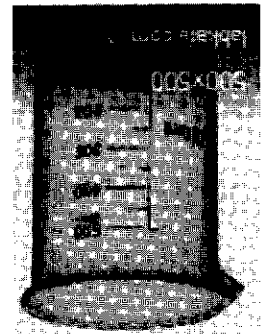
Scenario

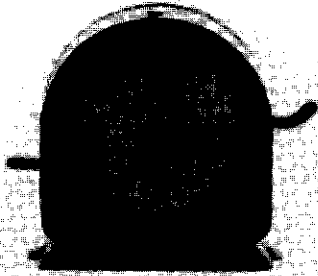
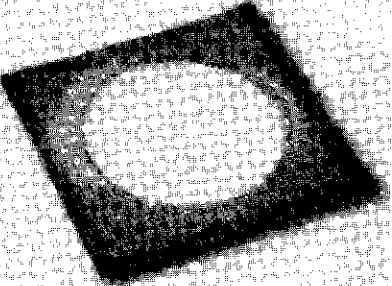
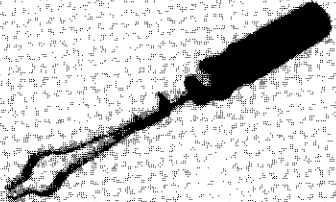
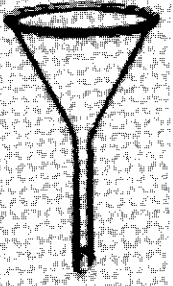
During a chemistry practical at Sunrise Secondary School, the teacher asked the students to set up for an experiment to heat a liquid, measure 50 mL of water, dissolve a solid, and observe reactions. The students found a variety of equipment on the bench, some of which are illustrated in the table below. The teacher asked them to identify each piece and explain its use before starting the experiment.

Task;

As a senior one chemist, help the students to respond to the teacher by completing the table below. (20 scores)

Equipment	name	use
		
		

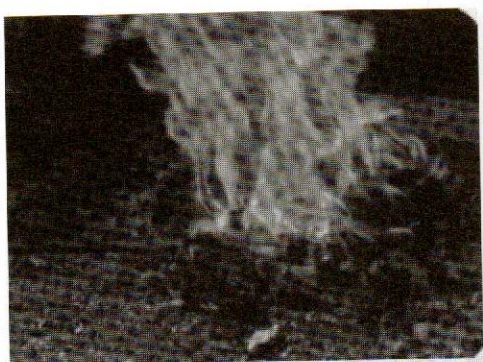


ITEM 4

Scenario

During a chemistry practical lesson, a student spilled acid on a classmate's hand, another caused a small fire while heating a substance, and broken glass was left on the floor, leading to an injury. The teacher quickly stepped in to handle the situation.



Task;

As a chemistry student, help your friends know the following

- a) Identify the accidents that occurred. (03 scores)

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- b) State the causes of each accident. (03 scores)

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c) Describe the first aid for each case. (03 scores)

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d) Suggest any two (2) ways to prevent such accidents in the laboratory. (01 score)

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END

Happy holidays