

Name: .....Signature: .....

**545/1**  
**CHEMISTRY**  
**Paper 1**  
**2024**  
 **$1\frac{2}{3}$  hours**

**DAYSTAR SECONDARY SCHOOL, WAKISO**  
**Uganda Certificate of Education**  
**CHEMISTRY**

**Paper 1**  
 **$1\frac{2}{3}$  hours**

**INSTRUCTIONS:**

*This paper consists of two sections; A and B.*

*Section A has **two compulsory** items.*

*Section B has **Two Items**. Answer **one item** in all.*

*Answers to **Section A** must be written in the spaces provided while that of **Section B** must be written on the answer booklet(s) provided.*

***Any additional item(s) answered will not be scored.***

## SECTION A

*Attempt all items in this section*

### Item 1

Joan, a student in primary got to hear about the chemistry subject that you do in secondary schools, she really wonders what the subject is all about. She said that she will not do the subject when she joins senior one because she thinks that the subject is useless.

Task:

- (a) Educate Joan about the meaning of the subject. [1 score]

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- (b) Using five reasons, guide Joan accordingly to change her mind set about the subject

[5 scores]

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- (c) Inspire Joan more by telling her any four ways how the subject knowledge has improved her local environment economically [4 scores]

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Item 2

A senior one student entered the school laboratory with his school bag to do a certain experiment without the teacher's permission, in his experiment, he was using a Bunsen burner which he had lighted, accidentally as he was turning, the bag knocked the burner down onto the lab cupboard containing cotton wool, plastic apparatus and wooden racks hence causing a fire outbreak, he immediately ran out and came to you for help.

Task: As his friend;

(a) What immediate action can you do to help him? [6 scores]

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(b) Advise him in order to prevent such action from happening again. [4 scores]

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## SECTION B

*Attempt any one item in this section*

### Item 3

1. Your friends at home were in an argument about chemistry in which they failed to come to a conclusion. One of them said that there are no products made using the knowledge of chemistry and we use them in our daily life. The other said that their teacher had said that many processes that we encounter everyday can be explained using the knowledge of chemistry, something they doubted. They all decided to come to you in order to come to a conclusion.

**Task:** As a chemistry student;

Write a presentation you can make while helping your friends to come to a conclusion out of their argument. [10 scores]

### Item 4

In your school laboratory, there are different apparatus used in chemistry for different purposes which can be categorized as; apparatus for heating, apparatus for measuring volume, apparatus for measuring mass and apparatus for measuring temperature.

**Task:** As a chemistry learner;

- (a) Identify two examples of apparatus in each category of purpose.
- (b) Under the category of apparatus for heating, describe how one of the apparatuses is operated and how you can change flames produced by it.

[10 scores]

*[STAY SAFE]*

**END**