

Name.....Stream.....

## CHEMISTRY

### SECTION A

#### Item 1

Timothy owns a laundry shop in Busia border town. Being a new person in the area, he sent one of the water sellers to collect for him water for use. While cleaning some of his client's white clothes, using available detergent, he realized that some brown spots remained on them yet he had rinsed it severally. This has left Timothy wondering and has approached you for some pieces of advice.

#### Task

As a chemistry learner;

(a) Explain to Timothy the mistake he made when choosing the product

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(b) Guide Timothy to understand how the product works.

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c) Advise Timothy on the challenges associated with the long term use of the product.

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(d) Help Timothy to evaluate the products.

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**Item 2**

According to industrial chemist hosted on national television, common salt which is also known as sodium chloride plays a vital role in various industrial applications due to it's properties. Your siblings watching the television are left wondering about what the chemist said and want to know the composition and properties of crystals of common salt.

**Task**

As a chemistry learner;

(a) Explain the category of the product.

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b) Explain the suitability of the product you have identified

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(c) Guide them on the environmental impact of the product.

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## SECTION B

### Part 1

#### Item 3

Opoka a resident of Bukeddi wants establish soapy detergent factory in his locality but he needs guidance from someone with chemistry knowledge regarding the process, side effects and benefits of the whole process to the society

#### Task:

As chemistry student, make a write a message to guide mr Opoka about his concern

#### Item 4.

Many people in the villages make a living by manufacturing local waragi(ethanol). However, the government is against the business due to associated challenges. The area Member of parliament wants to sensitize the community about the large-scale production process and it's impact to enable them understand the government position.

The area Member of parliament has contacted you as a student with knowledge of chemistry in your village to provide relevant information.

#### Task:

As chemistry student, with the chemistry knowledge make a write-up to use upon meeting the community.

## PART II

#### Item5

Martin's family rely mainly on stone quarrying to earn a living , however martin doesnot know the composition of the rocks were the stones come from , he is also concerned about the likely effects of his activities especially to the community ,and about other benefits of the rocks

#### Task.

As a chemistry student address Martin's concern

#### Item 6.

In order to prepare meals quickly for their customers, a hotel chief recommends use of firewood, wood charcoal and liquid petroleum gas, However recent environmental concerns about the impact of using these materials on environment has compelled the hotel manager to seek guidance from a knowledgeable person.

#### Task

As a chemistry student, come up with a write up to guide the manager.

**End**