

Candidate's Name: Signature:

School:

545/2
CHEMISTRY
Paper 2
(Practical)
July, 2025
2 hours



Online Chemistry Class – tztqyd5d

Uganda Certificate of Education

MOCK ASSESSMENT

CHEMISTRY

Paper 2
(Practical)

2 hours

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **one compulsory** examination item.*

*Answers to this item are to be written in the spaces provided in this booklet. Use **blue** or **black** ink to write.*

***All** working **must** be clearly shown. Graph paper is provided for you in the paper.*

*You are **not** allowed to use reference books like text books, and practical booklets.*

*Candidates are advised to carefully read the item, make sure you have all the apparatus and chemicals you may need and then **plan** appropriately before starting.*

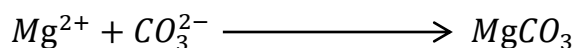
ITEM

Local people of Nakasongola district usually face shortage of water for domestic use during the dry season. The only water reserves during this period are the valley dams. Water in these dams usually cost the people a lot of soap to form lather when using it. Water collected from the dams contains dissolved minerals of magnesium sulphate. Washing soda is a commercially available solution that the local people may buy to overcome the challenges. Each day the local people use a minimum of 20 liters per day.

FA1; which is solution of washing soda

FA2; which is water sample obtained from one of the valleys in the area

Mg^{2+} in **FA1** reacts with CO_3^{2-} in **FA2** according to the equation.



Tasks:

As a student who has studied Chemistry, use the materials available to you to;

(a) Design an experiment you can carry out to help the local people.

(Your design should include; aim, hypothesis, variables, apparatus and materials procedures, risks and their mitigations.)

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(b) Carry out the experiment and record your results

*(A minimum of **six** readings required.)*

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(c) Analyze your results and advise the local people accordingly.

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END

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