

Candidate Name _____ Signature _____
School: _____ Personal No: _____

545/2
CHEMISTRY
Paper 2
Jul/Aug. 2025
2 Hours



**SENIOR EDUCATION CONSULTANTS (SEC)
JOINT MOCK EXAMINATIONS, 2025**

Uganda Certificate of Education

CHEMISTRY

**Paper 2
2 hours**

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Do not write in the boxes on this page. The examiner will use them to keep a record of your marks

Item	a	b	total
Max scores			
Actual scores			

INSTRUCTIONS TO CANDIDATES:

- This paper consists of one compulsory item
- Responses to this item must be written in the spaces provided

ADVICE

- Read the item carefully before you start your response
- Spend part of the time planning your investigations

Turn Over

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Item 1

Sulphur is one of the major ingredients in the manufacture of antifungal skin ointments and it is in high demand. A certain skin care company wishes to produce more sulphur in a short time using a set of chemical reagents, they strongly believe that this depends on the concentration of their chemical reagents.

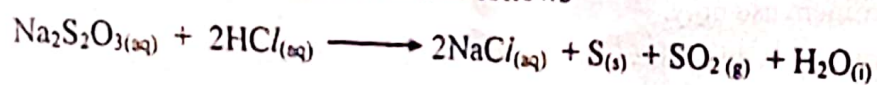
You are required to investigate how the time taken for production of sulphur is affected by concentration for the reaction between sodium thiosulphate solution and hydrochloric acid.

You are provided with the following solutions used to prepare sulphur in the laboratory.

BA1 which is sodium thiosulphate solution

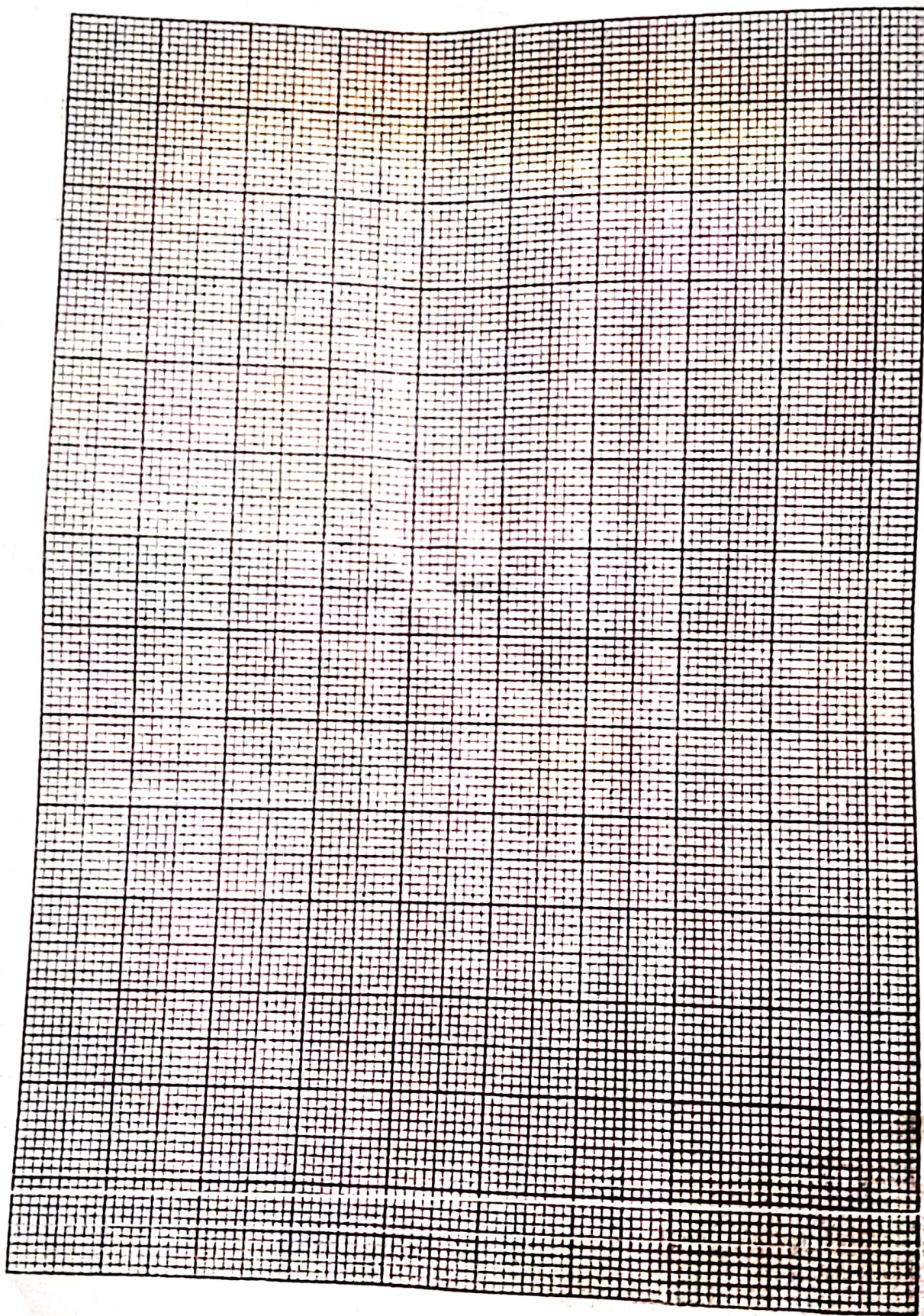
BA2 which is hydrochloric acid solution

The two chemical reagents react as follows

**Task**

- a) As a learner of chemistry
- i) Design an experiment you will carry out to examine the effect of concentration for the reaction between BA1 and BA2 on time taken to produce sulphur.

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b) Make a conclusion and recommendation from your experiment.

END