

Name: \_\_\_\_\_  
School: \_\_\_\_\_ Signature: \_\_\_\_\_

545/2  
**CHEMISTRY**  
**Paper 2**  
**(Practical)**  
**November 2024**  
**2 Hours**



**WAKISSHA JOINT EXAMINATIONS**

**Uganda Certificate of Education**

**End of Year Assessment**

**SENIOR THREE**

**CHEMISTRY**

**Paper 2**

**(Practical)**

**2 Hours**

**INSTRUCTIONS TO CANDIDATES;**

*This paper consists of one compulsory item.*

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

*All working must be clearly shown. Graph paper will be provided.*

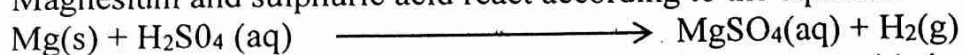
*Mathematical table and silent non-programmable scientific calculators may be used.*

*You are **not** allowed to use reference books (i.e. text books, booklets on qualitative analysis etc.)*

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

Mr. Brown a farmer dealing in cotton has been doing well but of recent his yields have deteriorated due to the soils lacking Epsom salt.

Magnesium and sulphuric acid react according to the equation



$\text{Mg(s)} + \text{H}_2\text{SO}_4(\text{aq}) \longrightarrow \text{MgSO}_4(\text{aq}) + \text{H}_2(\text{g})$   
You have been approached to help Brown and you are provided with the following.

**BA2** which is sulphuric acid solution

**Q** which is magnesium

As a chemistry learner,

- (a) Design an experiment you will use to determine the rate of the reaction for the factory to address their concerns (*Your answer should include aim, hypothesis, variables, apparatus and materials, procedure, risks and their mitigations*)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Lined area for writing answers.

- (b) Carry out your experiment and record your results.  
(a minimum of six readings is required)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

(c) Analyse your results and inform Brown accordingly.

Lined area for writing the answer.

Turn Over





END