NAME: .....

Random No.	
Index No.	

545/2
Chemistry Practical
Paper 2
July/Aug 2024
2 Hours

UGANDA CERTIFICATE OF EDUCATION
CHEMISTRY PRACTICAL
S3 Mid Term II 2024

Paper 2

2Hours

INSTRUCTIONS TO CANDIDATES

- *This paper consists of **one** compulsory examination item*
- *Answers must be written in the spaces provided. Use blue or black ink to write.*
- *ALL answers MUST be written in the spaces provided with clear working.*
- *Graph paper is provided for you in the paper.*
- *You are not allowed to use reference books like text books, and practical booklets.*
- *You 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.*

FOR ASSESSMENT USE ONLY		
ITEM	**SCORES**	**EXERMINER'S INITIALS ONLY**
1	**(a)** **(b)** **(c)**	
TOTAL		

Turn over

ITEM1.

Students of Kalanamu Community School were carrying out a scientific investigation in the laboratory in small groups. During the experiment, their chemistry teacher instructed them to add a prepared solution of an acid to an alkaline solution in a reaction vessel. The students noticed that the reaction vessel became warmer when they touched it. Sarah and most members of her group could not understand why and how much heat had been generated.

Sodium hydroxide reacts with hydrochloric acid according to the following equation.

$$NaOH + HCl_{(aq)} \longrightarrow NaCl_{(aq)} + H_2O_{(l)} + Heat$$

The heat produced varies with the volume of acid added to the base.

You are provided with;

BA1 which is sodium hydroxide solution

BA2 which is Hydrochloric acid solution

Task:

(a) As a learner of chemistry help Sarah and her group members to;

(i) Design an experiment you will carry out to determine the amount of heat, produced during the reaction when **BA1** is added to **BA2**.

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b). Carry out the experiment and record your findings.

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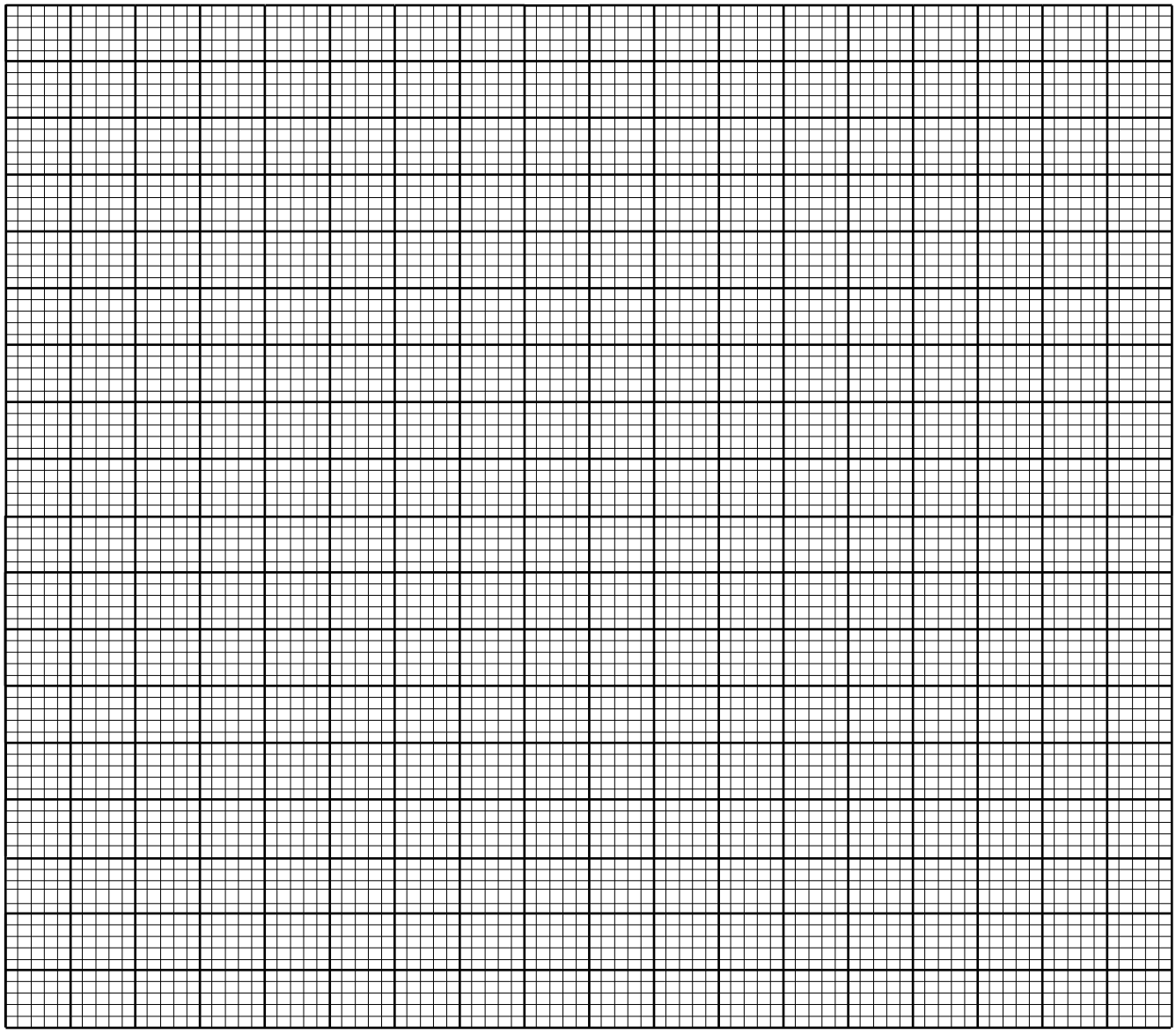

c). what can John and his classmates deduce from your findings

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END