Candidate's Name: .....

Signature: .....

Random No.						Personal No.		

(Do not write your School/Centre Name or Number anywhere on this booklet.)

545/2
CHEMISTRY
Paper 2
(Practical)
Oct./Nov. 2026
2 hours

For Scorers' Use Only		
Total Weighted Score		
Initials		

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

INSTRUCTIONS TO CANDIDATES:

This examination paper consists of **one compulsory** *item. Responses 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 tables and silent non-programmable scientific calculators may be used.

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

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

For Scorers' Use Only

Basis Code	Weighted Score	Scorers' Initials
AM		
VA		
HY		
PR		
MR		
DP		
DR		
DI		
CR		
Total Weighted Score		

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Item

Water in a river of a certain district in Uganda has been polluted with an alkaline chemical.
Authorities in the district are concerned. They have directed that the intensity of pollution at four different points along the river be established using the graphical method. They also want to know how the water pollution varies with distance from the point of discharge.

Samples of water along the river at distances of 20, 40 and 80 km from the source of pollution have been collected. However, the fourth point which is located 50 km away was inaccessible due to the dangers posed by wild animals.

You are provided with;

BA1, **BA2**, and **BA3** which are samples of polluted water collected at the distances of 20, 40 and 80 km respectively and **BA4**, which is dilute hydrochloric acid.

(The level of pollution could be determined by reacting the water samples with an acid.)

Tasks:

(a) Design and carry out a scientific investigation to address the concerns of the district authorities.
(*Your design should include; aim, hypothesis, variables, apparatus and materials, procedure, risks and their mitigations.*)

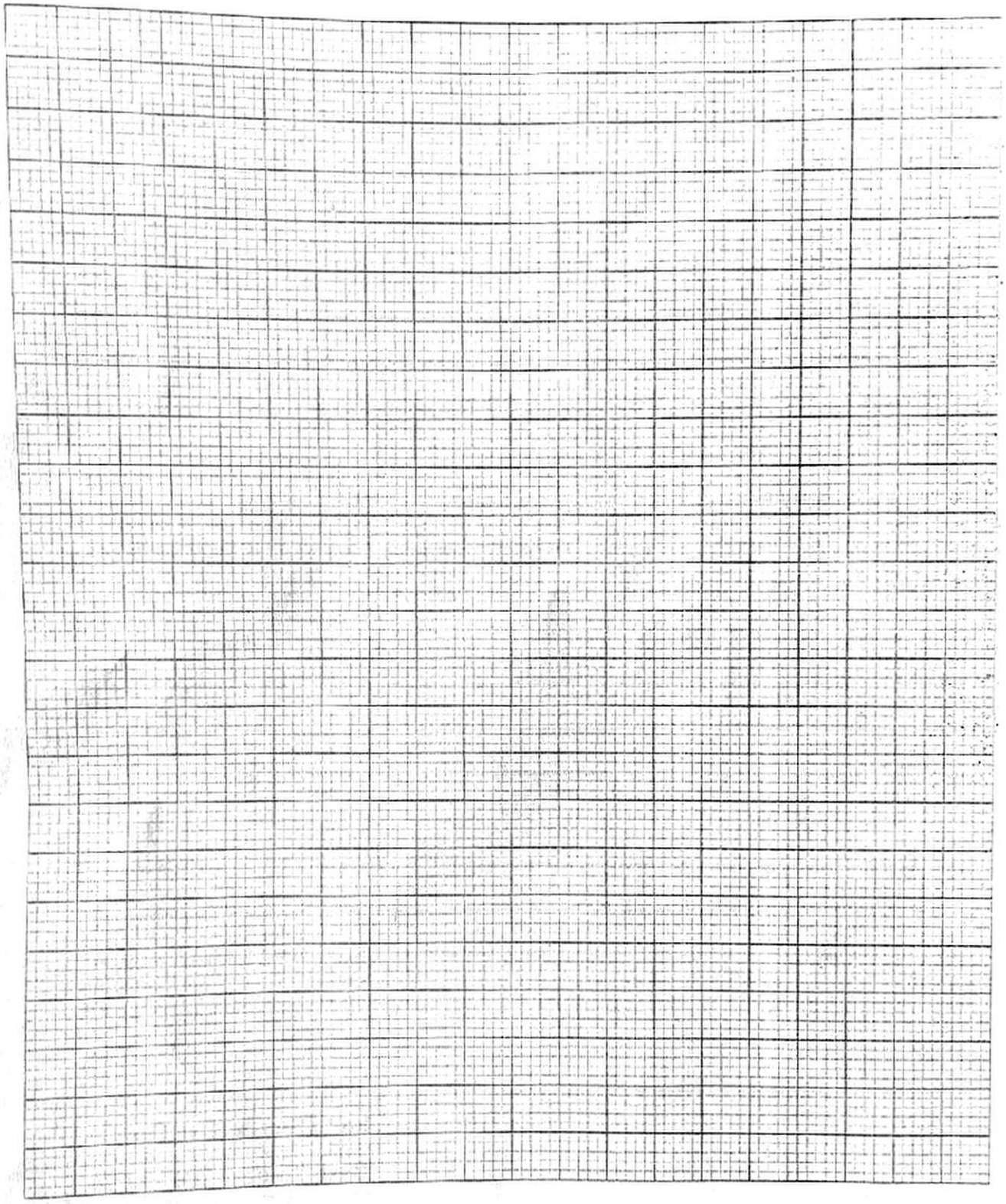
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Basis Code	AM	VA	HY	PR	MR
Score					

(b) Carry out the experiment and record your results.
(*A minimum of six readings required.*)

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Basis Code	DP	DR
Score		



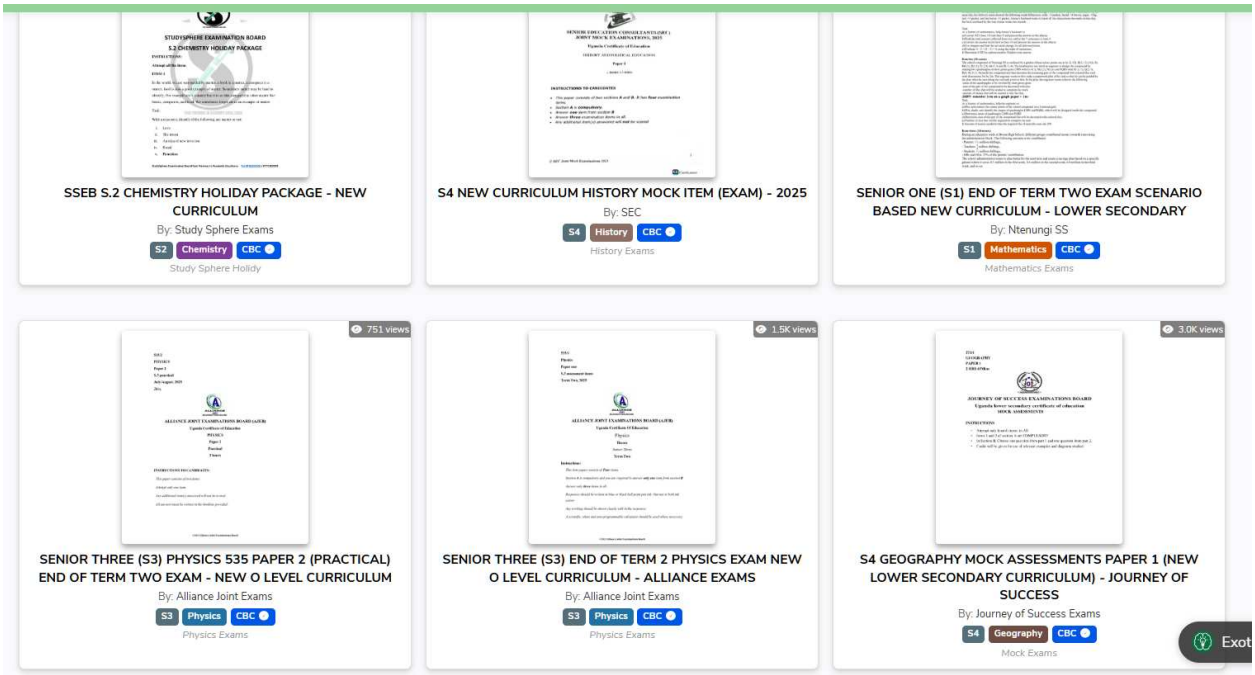
(c) Interpret your results and inform the district authorities accordingly.

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Basis Code	DI	CR
Score		

END

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