

LIGHT VOCATIONAL SECONDARY SCHOOL- KABAKYALA

S2 ACTIVITY OF INTEGRATION 2024

TOPIC: REACTIVITY SERIES

Time Allowed: **1 Hour**

Instructions: *Attempt all items in this paper*

Item 1: A group of students found out that different metals react differently. They observed this when some metals were made to react with cold water and steam. The changes they observed are summarized in the table below.

Metal	Reaction with water	Reaction with steam
A	Reacts rapidly	Reacts violently
B	Slow reaction	Fast reaction
C	No reaction	No reaction
D	Very slowly	Relatively fast
E	Too slow	Slow

(a) Use the information in the table to arrange the given metals starting with the most reactive to the least reactive

(b) Explain if metal B could be suitable for making roofing sheets

(c) Which of the metals would be most suitable for use in making water pipes? Explain the reasons for your choice.

Item 2: The school warden of your school contracted a carpenter to fix a door lock for a newly completed dormitory. He went to a hardware shop but found different metal types of locks with handles made from iron, brass, zinc and copper. However, the carpenter was confused of which lock to buy and you have been contacted for the assistance to help him out.

As a chemistry learner,

a) Explain the category of the material the carpenter can choose

b) Suggest at least four properties that make that material suitable for its use

c) Advise the Carpenter on the side effects of the material and how to solve them.

****END****

"ENJOY THE BEAUTY OF CHEMISTRY"