

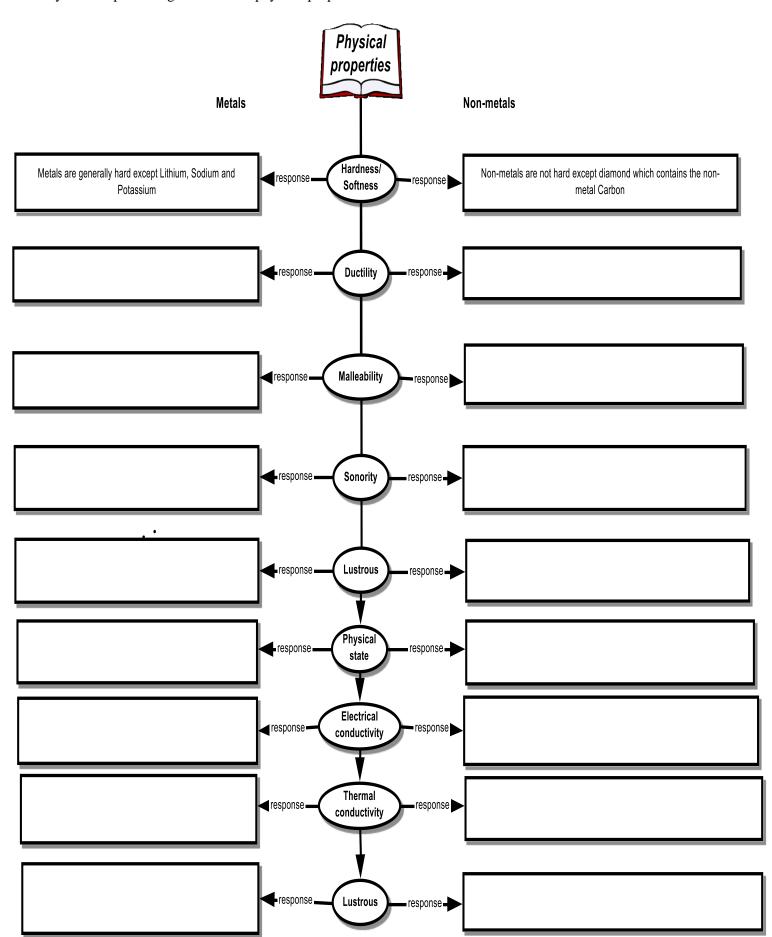
**Curriculum/2024-25/WS 2** 

**Subject: Chemistry** 

**Topic: Metals & Non- metals** 

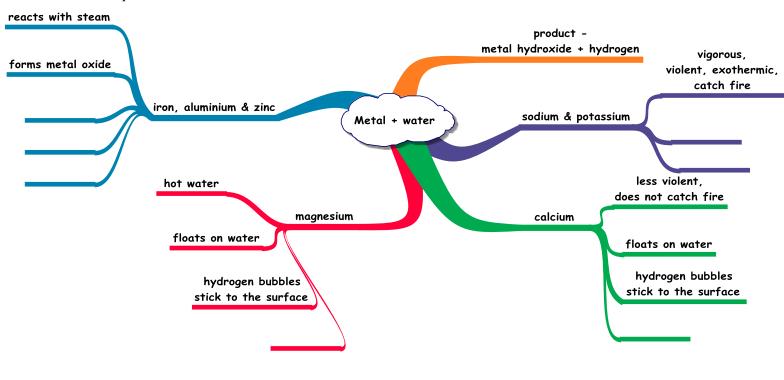
Name:	Grade: X	Sec:	Date:
1 tanc.	Grauc. 21	Dec	Date:

Activity 1: Complete the given chart on physical properties of metals & non-metals.



Activity 2: Complete the empty branches and answer the questions.	of the mind map with equations on the reaction of various metals with oxygen react with both acids and bases
	amphoteric oxide zinc oxide
aluminium oxide	aluminium oxide
alumir	nium product is metal oxide
copper oxide- black	Metal + oxygen sodium and potassium vigorous
does not catch fire	violent
does not catch the	iron does not burn
	filings catch
forms an oxide coating at ordinary temperature	
	do not react gold and silver with oxygen
a) Write down the equation for the reaction	on of the following metals with oxygen.
Copper :	
Iron:	
Potassium:	
b) Why some metals are known as self prorder of their reactivity.	rotecting metals? Arrange the metals mentioned in the mind map in the increasing
c) Write a summary on the reaction of me	etals with oxygen.
d) Define amphoteric oxides.	
e ) Metal oxides are	in nature.

Activity 3: Complete the empty branches of the mind map with equations on the reaction of various metals with water and answer the questions.

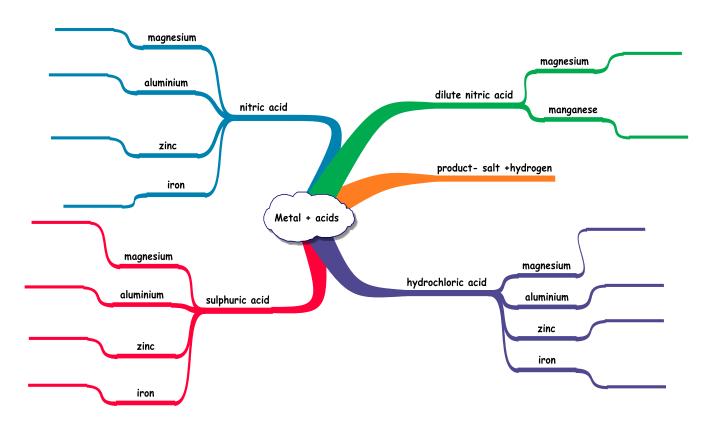


a) Write down the equation for the reaction of the following metals with water : sodium, potassium, calcium, magnesium, iron, aluminium and zinc.

o) Make a summary on the reaction	n of metals with v	water.		
Why do metals like calcium and	l magnesium floa	t on water?		

4)	Arrange the metals in th	e decreasing order	r of their react	ivitv
u,	midilge the include in th	ic accreasing or aci	i oi mon icaci	IVILY.

Activity 4: Complete the empty branches of the mind map with equations on the reaction of various metals with acids and answer the questions.



a) Give reason: Hydrogen gas is not evolved when metals react with nitric acid.					
	_				
	_				
	_				
o) Make a summary on the reaction of metals with acids.					

c ) Explain an activity to find out the order of reactivity of magnesium, aluminium, zinc and iron with acids.



Activity 5: Complete the flow chart on the extraction of zinc metal.

