

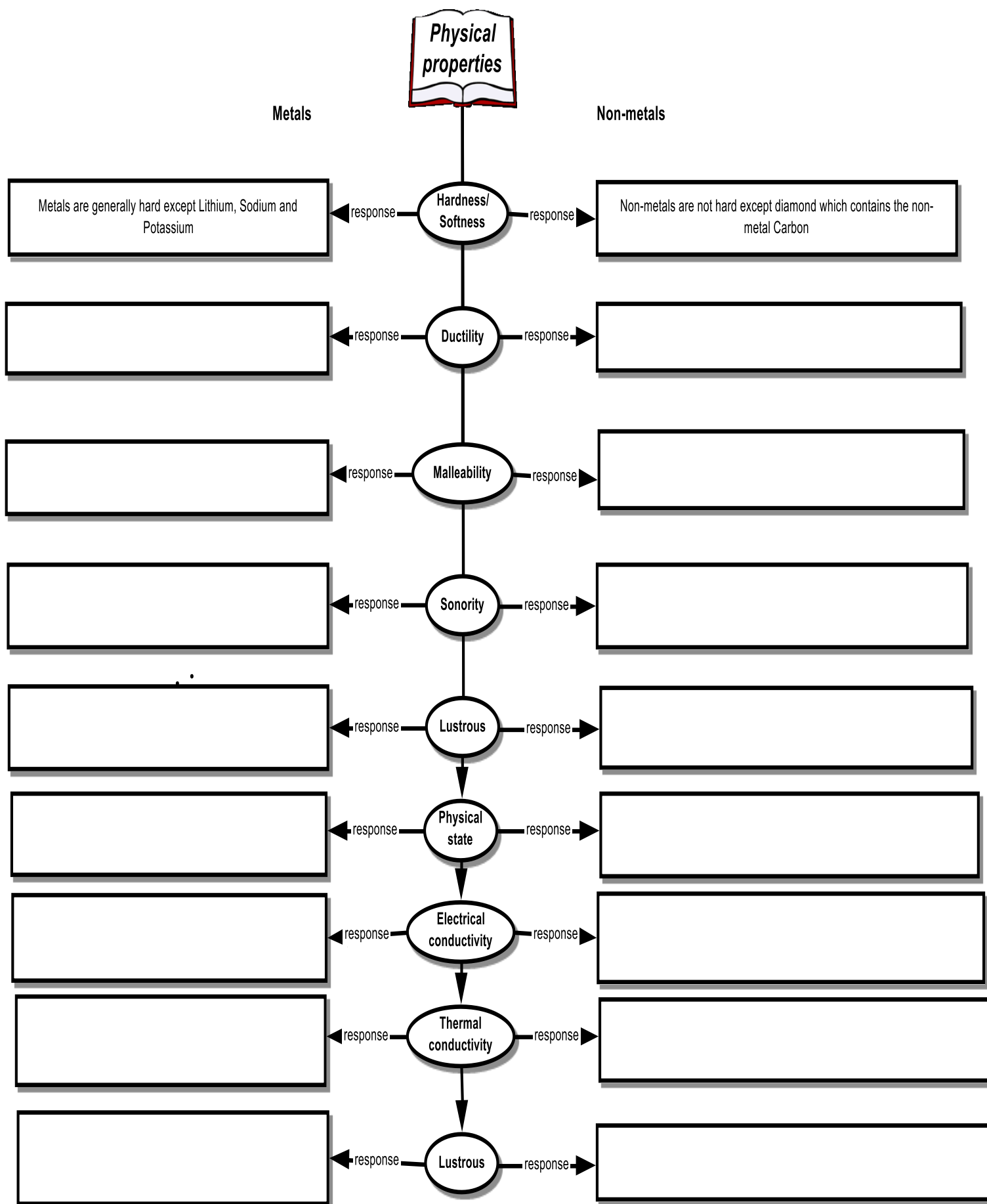
Curriculum/2024-25/WS 2

Subject: Chemistry

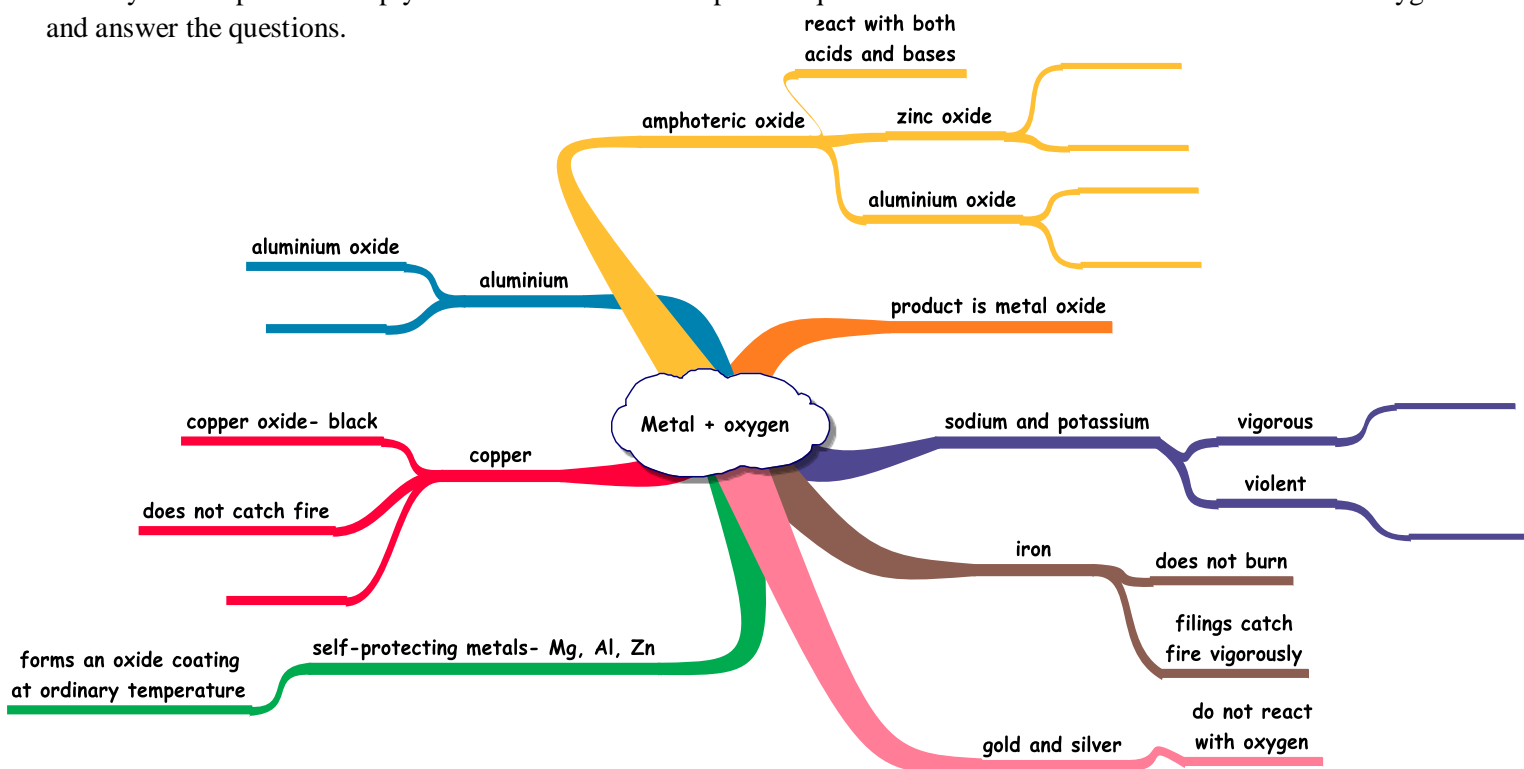
Topic: Metals & Non- metals

Name: _____ Grade: X Sec: _____ Date: _____.

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



Activity 2: Complete the empty branches of the mind map with equations on the reaction of various metals with oxygen and answer the questions.



a) Write down the equation for the reaction of the following metals with oxygen.

Copper : _____ Aluminium: _____

Iron: _____ Sodium: _____

Potassium: _____ Magnesium: _____

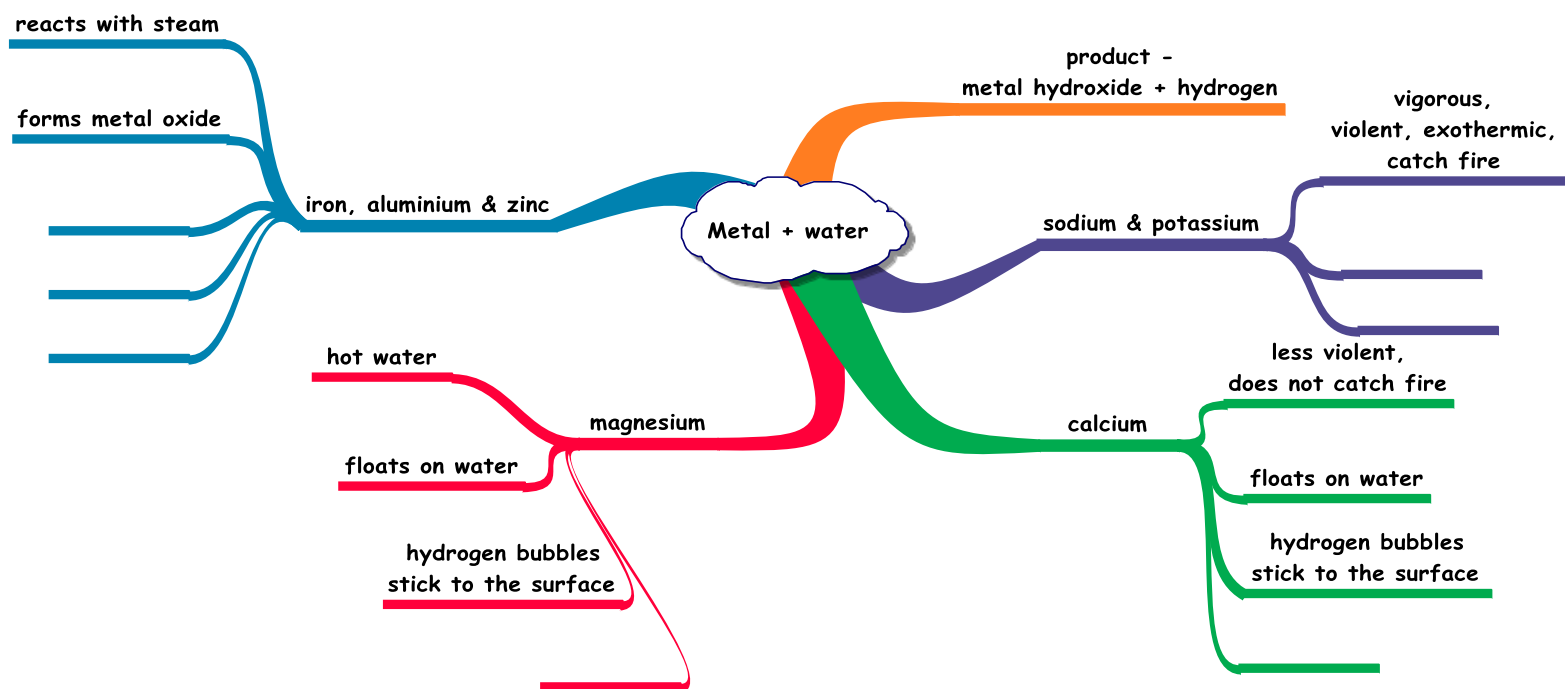
b) Why some metals are known as self protecting metals? Arrange the metals mentioned in the mind map in the increasing order of their reactivity.

c) Write a summary on the reaction of metals 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.



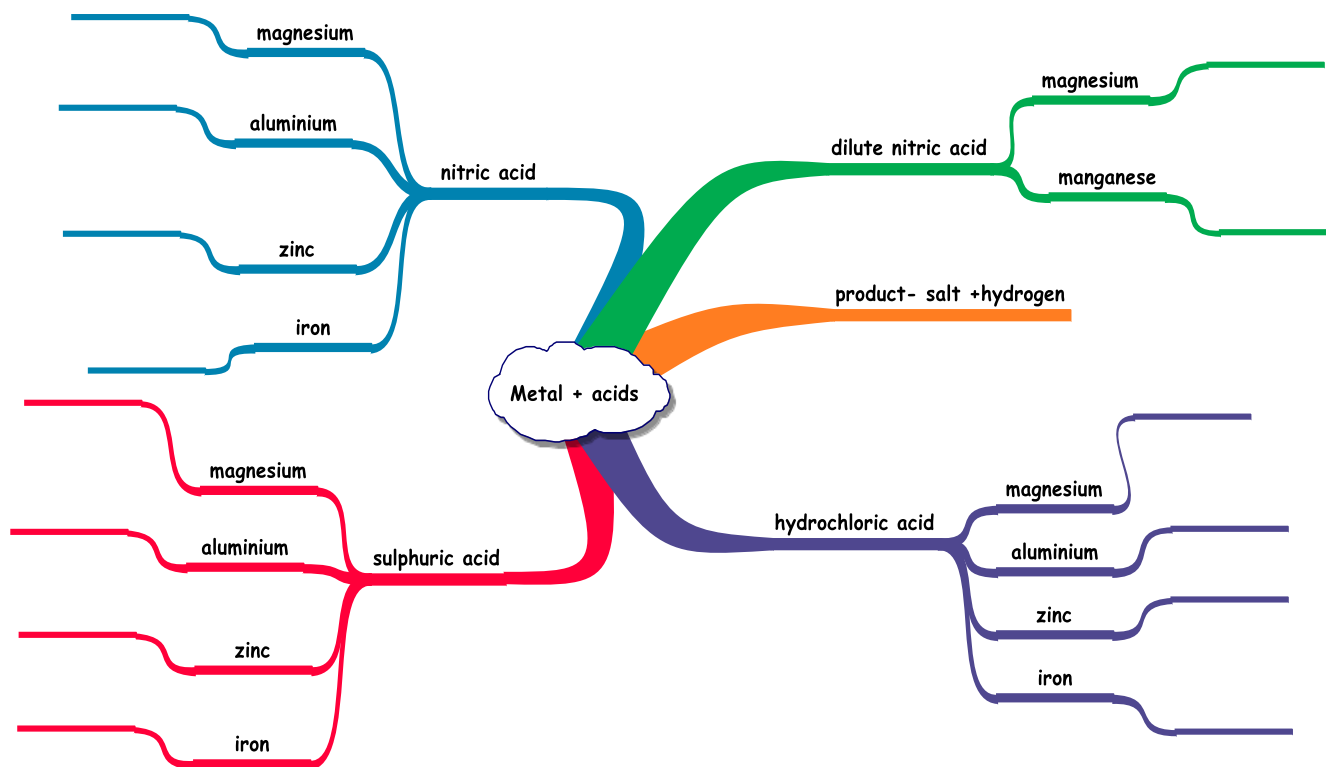
a) Write down the equation for the reaction of the following metals with water : sodium, potassium, calcium, magnesium, iron, aluminium and zinc.

b) Make a summary on the reaction of metals with water.

c) Why do metals like calcium and magnesium float on water?

d) Arrange the metals in the decreasing order of their reactivity. _____

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

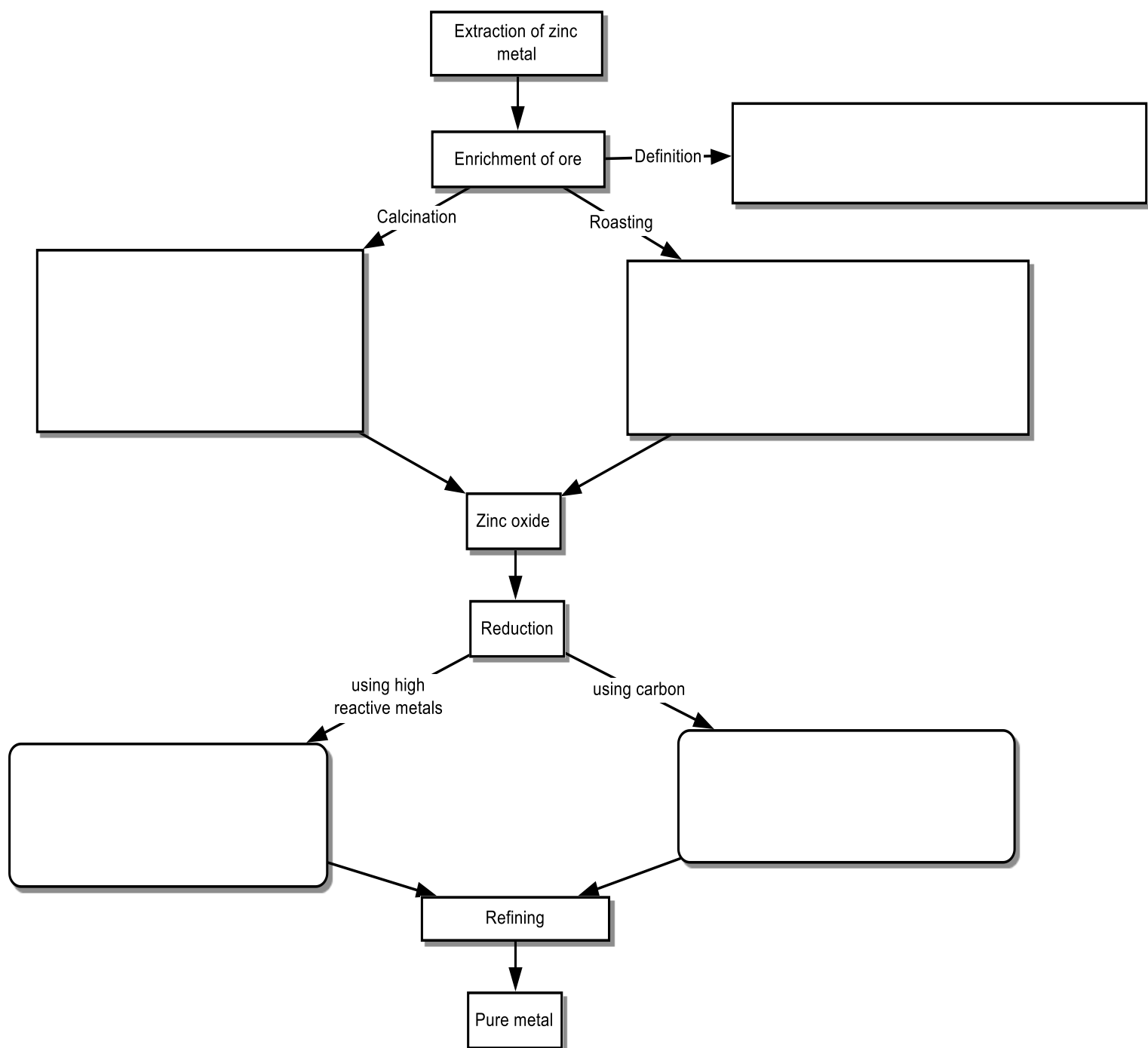


a) Give reason: Hydrogen gas is not evolved when metals react with nitric acid.

b) 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.



Activity 6: Complete the flow chart on extraction of copper and mercury.

