



Sabaragamuwa Provincial Department of Education – Weekly School

Subject - Science

Grade - 10

Week – September V

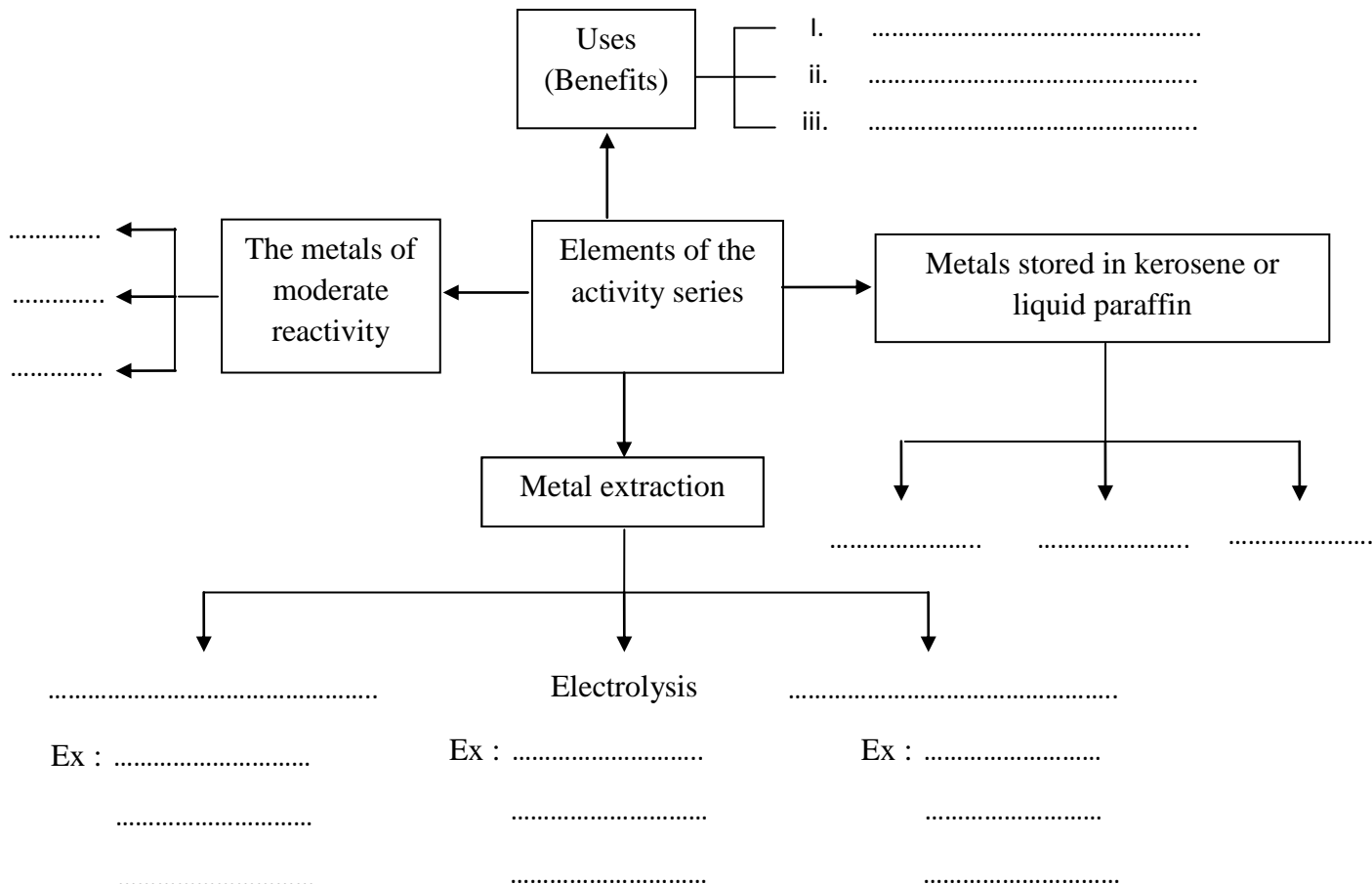
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Changes in matter

01. Fill in the blanks in the table below.

	Chemical reaction	Type of reaction
a	$\text{Mg} + \text{O}_2 \longrightarrow \dots\dots\dots$	
b	$\text{CuSO}_4 + \text{Zn} \longrightarrow \dots\dots\dots + \text{Cu}$	
c	$\text{KMnO}_4 \xrightarrow{\Delta} \dots\dots\dots + \text{MnO}_2 + \dots\dots\dots$	
d	$\text{CaCl}_2 + \dots\dots\dots \longrightarrow \text{CaCO}_3 + \text{NaCl}$	
e	$\dots\dots\dots + 6 \text{HCl} \longrightarrow \text{AlCl}_3 + \dots\dots\dots$	

02. Complete the flow chart below relevant to the activity series.



(Mention 3 metal elements as examples to each category)

03.

- I. What is the structure (oven) used for iron extraction?
- II. What are the raw materials used for iron extraction?
- III. Mention 3 chemical reactions that occur here.

04. Complete the table below regarding gas preparation.

Gas type	Chemicals required	Identification	Methods of collecting gas
	$\text{Zn} + \text{HCl}$		
		The lime water turns milky.	
Oxygen			