## JHS Regents Chemistry Department Alkaline Earth Metals and Activity Series for Metals

## **Questions:**

1. Describe the	e differences ir	reactivity of the Group 2 metals in terms of their location on the periodic table.
Metals becom	e more reactive	e down a group due to lower ionization energy and greater shielding effect
2. Explain wh	ny the metallic	activity increases as you go down the group.
lower ionization energy and greater shielding effect		
3. What was the physical evidence from your data that shows the metallic character of the alkaline earth metals increased as you go down the group?		
$Ca + H_2O$ produced Hydrogen gas while $Mg + H_2O$ did not		
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4. Describe the differences in reactivity of calcium, iron and copper in terms of their location across period 4 of the periodic table.		
Calciu	m greater react	ivity than Iron greater reactivity than Copper
5. Predic	t the activity of	the following metals in hydrochloric acid.
a.	Potassium	Most reactive
b.	Silver	medium reactivity
c.	Sulfur	Least reactive