

Lab Observation Report #1

Exploring the reactions of acids with metals

Name: Answer key Grade 8 ()

Date: /11/2022

In this lesson you will investigate reactions of different metals with Diluted HCl followed by a demonstration of the reaction between metals and concentrated HCl.

1- Diluted HCl with different metals.

Concentration of HCI: 0.1 M

Record your observation in the table below

Metal	Observation when acid added
Zinc	Bubbles showed
Iron	Little bubbles
Copper	No bubbles
Calcium	Vigorous bubbles
Magnesium	Bubbles showed

List metals in order from most reactive to least reactive.

Calcium > Magnesium > Zinc > Iron > Copper

2- Concentrated HCl with different metals

Concentration of HCI: 3 M

Record your observation in the table below

Metal	Observation when acid added
Zinc	Bubbles showed
Iron	Little bubbles
Copper	No bubbles
Calcium	Vigorous bubbles
Magnesium	Vigorous bubbles showed







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How can we test the pre	sence of Hydrogen gas?	
The pop test		
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What conclusions can yo	u make out?	
The more concentrated	the acid is, the strongest the reaction with the metal is.	
Write an equation for ea	ch of the reactions you observed.	
Zn + HCl	➤ ZnCl ₂ + H ⁺	
Fe + HCl	► FeCl ₂ + H ⁺	



Cu + HCl -



No Reaction







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