

Name: _____

Atmospheric Gases

DATA SHEET

1. Observations related to the generation of carbon dioxide.

2. Observations related to the generation of oxygen.

3. Colors of the pH buffer solutions.

pH	3	4	5	6	7	8	9
Color							

4. Properties of carbon dioxide and oxygen.

pH of water prior to the introduction of carbon dioxide or oxygen. _____

	Solution pH	Observation with Limewater	Observation Glowing Splint
Carbon dioxide			
Oxygen			

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Atmospheric Gases

REVIEW QUESTIONS

1. Explain what you observed about the interaction of the gases with limewater.
2. Explain what you observed about the interaction of the gases with the glowing wood splint.
3. What is the general effect of the following gases on the acidity of water solutions?
 - a. oxygen
 - b. carbon dioxide

Name: _____

Atmospheric Gases

DATA SHEET

PREPARATION AND PROPERTIES OF ATMOSPHERIC GASES II

1. Observations related to the generation of sulfur dioxide.

2. Observations related to the generation of nitrogen dioxide.

3. Colors of the universal indicator solutions

pH	3	4	5	6	7	8	9
Color							

4. Properties of sulfur dioxide and NO/NO₂ solutions:

pH of water prior to the introduction of SO₂ or NO₂. _____

Solution pH of after the introduction of SO₂. _____

Solution pH of after the introduction of NO/NO₂. _____

