

Preparing and Testing Hydrogen Worksheet

Observations and Results

1. Complete the following chemical equation



2. What were your observations when pure hydrogen was tested?

3. What were your observations when the mixture of air and hydrogen was tested?

4. Is hydrogen lighter than air? What is the reason for this conclusion?

5. Indicate whether the following statements are True or False

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| a) Hydrogen gas is colorless. | _____ |
| b) Hydrogen does not diffuse in air. | _____ |
| c) Hydrogen is very soluble in water. | _____ |
| d) Hydrogen has a greater density than air. | _____ |
| e) Hydrogen is flammable. | _____ |
| f) Hydrogen supports combustion. | _____ |
| g) Hydrogen and air will explode when ignited. | _____ |
| h) Zinc and sulfuric acid will form a gas. | _____ |