

Name: _____

Date: _____ Per: _____

Chemistry
Physical vs. Chemical Changes WS

I. *Answer the following questions based on your knowledge of matter:*

1. What is a major difference between a physical property and a chemical property?

2. Sulfur is a brittle yellow solid with a melting point of 115°C . It sinks in water, and combines with carbon to form carbon disulfide. Which of these are physical properties, and which are chemical properties?

3. In an experiment, a red chemical compound is heated so that it breaks down into a gray substance. The mass of the red compound is greater than that of the gray substance. What happened? Was matter destroyed?

4. Using examples in your textbook, write a chemical equation below showing how hydrogen gas (H_2) and oxygen gas (O_2) react to form water (H_2O).

5. A chemical reaction occurs where some amount of nitrogen gas (N_2) is reacted with 6 g of hydrogen gas (H_2) to form 17 g of ammonia (NH_3). How much nitrogen gas was consumed in this reaction?

6. Name two ways the Law of Conservation of Matter applies to physical and chemical changes.

