- 1. Compared to the physical and chemical properties of the compound NO_2 , the compound $N_2O\text{has}$
 - A) different physical properties and different chemical properties
 - B) different physical properties and the same chemical properties
 - C) the same physical properties and different chemical properties
 - D) the same physical properties and the same chemical properties
- 2. Powdered iron is magnetic, but powdered sulfur is *not*. What occurs when they form a mixture in a beaker at room temperature?
 - A) The iron retains its magnetic properties.
 - B) The iron loses its metallic properties.
 - C) The sulfur gains magnetic properties.
 - D) The sulfur gains metallic properties.

- 3. A substance is classified as either an element or a
 - A) compound
 - B) solution
 - C) heterogeneous mixture
 - D) homogeneous mixture
- 4. Which substance can *not* be broken down by a chemical change?
 - A) ammonia
- B) methanol
- C) propane
- D) phosphorus
- 5. Matter is classified as a
 - A) substance, only
 - B) substance or as a mixture of substances
 - C) homogenous mixture, only
 - D) homogenous mixture or as a heterogeneous mixture