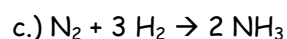
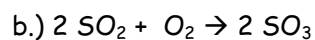
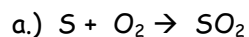


Chemical Reactions and Conservation of Mass

Name - _____

1.) What is the main difference between a physical change and a chemical change?

2.) Use words to describe the following chemical equations.



3.) Identify which chemicals are the reactants and which are the products below:

a.) magnesium + oxygen \rightarrow magnesium oxide

b.) water \rightarrow hydrogen + oxygen

c.) methanol + oxygen \rightarrow carbon dioxide + water

d.) aluminum + copper (II) chloride \rightarrow aluminum chloride + copper

4.) State the law of conservation of mass in your own words.

5.) Use the law of conservation of mass to write in the missing amounts.

a.) calcium + chlorine → calcium chloride

40.1 g 71.0 g _____ g

b.) ammonia → nitrogen + hydrogen

34 g _____ g 6 g

c.) ethanol + oxygen → carbon dioxide + water

46 g _____ g 88 g 54 g

d.) magnesium + copper(II) chloride → aluminum chloride + copper

24.3 g 134.5 g _____ g 63.5 g