**Open Note Quiz: Balancing Equations**

1. What is the law of the conservation of matter?
2. Name the type of each reaction below AND balance:

\_\_\_\_ NaBr + \_\_\_\_ H3PO4  \_\_\_\_ Na3PO4 + \_\_\_\_ HBr

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ Ca(OH)2 + \_\_\_\_ Al2(SO4)3  \_\_\_\_ CaSO4 + \_\_\_\_ Al(OH)3

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ Mg + \_\_\_\_ Fe2O3  \_\_\_\_ Fe + \_\_\_\_ MgO

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ C2H4 + \_\_\_\_ O2  \_\_\_\_ CO2 + \_\_\_\_ H2O

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ PbSO4  \_\_\_\_ PbSO3 + \_\_\_\_ O2

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ NH3 + \_\_\_\_ I2  \_\_\_\_ N2I6 + \_\_\_\_ H2

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ H2O + \_\_\_\_ SO3  \_\_\_\_ H2SO4

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_ H2SO4 + \_\_\_\_ NH4OH  \_\_\_\_ H2O + \_\_\_\_ (NH4)2SO4

Type of reaction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_