STUDY GUIDE CH. 6 & 8 TEST NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List the 5 types of reactions from your notes. For each give a definition and a generic formula.

1.
2.
3.
4.
5.

Balance the following chemical equations and calculate the molar mass for each side.

1. **\_\_\_\_\_Al + \_\_\_\_\_FeO** 🡪 **\_\_\_\_\_Al2O3 + \_\_\_\_\_Fe**

 **\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_**

 **Mass Mass Mass Mass**

 **of Al of FeO of Al2O3 of Fe**

 **\_\_\_\_\_\_\_\_g 🡪 \_\_\_\_\_\_\_\_g**

1. \_\_\_\_\_NH3 🡪 \_\_\_\_\_N2 + \_\_\_\_\_H2

 \_\_\_\_\_\_\_g 🡪 \_\_\_\_\_\_\_g + \_\_\_\_\_\_\_g

 \_\_\_\_\_\_\_\_g 🡪 \_\_\_\_\_\_\_\_g

**Define the following:**

1. **Exothermic**
2. **Endothermic**
3. **Coefficient**
4. **Subscript**
5. **Reactant**
6. **Product**
7. **Equilibrium**
8. **Catalyst**
9. **Enzyme**
10. **Law of Conservation of Mass**

**Why is it incorrect to balance a chemical equation by changing subscripts?**

**What type of reaction is photosynthesis?**

**What are several ways to increase reaction rate (speed up a chemical reaction)?**