8-2 Rev ws 2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1) Define a **Decomposition Reaction**:

a single compound undergoes a reaction that produces two or more simpler substances.

2) Write the “skeleton” to represent a decomposition reaction:

AX → A + X

3) Most decomposition reactions take place when what TWO things are added?

Energy in the form of electricity or heat is added.

4) What is Electrolysis?

the decomposition of a substance by an electric current

5) Write a reaction for the following:

 Decomposition of Metal Carbonates:

 CaCO3(s) → CaO(s) + CO2(g)

 Decomposition of Acids:

 H2CO3(aq) → CO2(g) H2O(L)

 6) A Decomposition reaction ALWAYS has how many Reactants?

 Decomposition reactions ALWAYS have ONE Reactant