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