Name _____

Required Pre Laboratory Assignment for Experiment 5: Reactions in Aqueous Solutions: Metathesis Reactions and Net Ionic Equations

Due to your TA in lab before beginning this experiment.

1. Read the entire Experiment and answer the following questions:

a. What are the three chemical processes that can lead to the removal of ions in solution and therefore serve as a driving force for a metathesis reaction to occur?

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b. From the experiment, write a *molecular equation* that illustrates a specific example of *each* of the processes you listed above.

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c. Write complete ionic and net ionic equations for *one* of your molecular equations above.

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3. Table 1 on page 51 of the lab manual is used to determine whether a precipitate forms in a reaction. From Table 1, what is the formula for the precipitate that forms when sodium carbonate reacts with calcium acetate? If no precipitate forms, write "none".

_____

4. When H_2CO_3 and H_2SO_3 are formed in metathesis reactions, they decompose to form gases. Write the equation for the decomposition of each of these substances. (Hint: the equations can be found on page 36 of the experiment's discussion).

$H_2CO_3 \rightarrow$ _____

$H_2SO_3 \rightarrow$ _____