

Name:

Lab Partner:

### Experiment 6 Post-Lab Sheet

1. (8 pts) Write your observations plus the **balanced molecular** and **net ionic** reaction equations for all precipitation reactions you saw happen. (Include phases or states!)
2. (2 pts) Write your observations plus the **balanced molecular** and **net ionic equations** for all reactions that formed a gas. (Include phases or states!)
3. (2 pts) Write the **balanced molecular and net ionic equations** for all reactions that changed temperature **with no other obvious change**.

4. (6 pts) For each of 3 reactions that changed color but stayed clear and didn't precipitate, **describe what reactants you mixed and your initial and final observations of color.** Look up "complex formation reactions" on your cellphone. (For extra credit, i.e. optionally, try to write balanced equations for these reactions. This is hard!)

5. (2 pts) In these color change reactions that didn't form precipitate, why/how did the color change? What type of electrolytes must have been involved? Hint: Think about "complex formation". What is a "complex ion"?