SB#:

Name:

All work is to be done individually. You can use textbooks, notes, and resources on the internet.

1. Write a net ionic equation for the precipitation reaction you expect to occur in Part A of the experiment.

- 2. What experimental variable are you changing in Part A when you expose your set of three test tubes to different conditions?
- 3. What color is the chromate ion (formula CrO_4^{2-})?
- 4. What color is the dichromate ion (formula $Cr_2O_7^{2-}$)?
- 5. What variable are you changing in Part B of the experiment?
- 6. What color is $Co(H_2O)_6^{2+?}$?
- 7. What color is $CoCl_4^{2-?}$?
- 8. Does $Co(H_2O)_6^{2+}(aq)$ mean the same thing as $Co^{2+}(aq)$? If not, how are they different?
- 9. What is the "common-ion effect"?