**This week's lab is another one where you will be designing your own experiment. Complete the following prior to lab:**

1. Fill out header. You will *not* have a partner.
2. Write an objective.
3. Create a list of any references you use.
4. Create your flowchart. *Remember: a good flowchart will have branches rather than being a continuous line. Each branch should represent an expected result from a particular test.* It should specify which solutions will give each result and what the next step is for each group of solutions that give the same result. We will discuss these at the beginning of lab to ensure that everyone has a viable process.
5. Write a procedure for each type of test (such as flame test) you will do including those that will just be used to verify identification. Leave room to make corrections if needed. *Do not write your flowchart in words.*
6. Think about how to organize your data in a table that will make it easier to identify each solution.