

REPORT GUIDE **Report Due:** Wednesday March 11

This will not be a formal report. This **report will be done individually**. For the report—turn this page with the data listed below:

Name _____

1. In the space below sketch all your TLC plates. Be sure to note which experiment they pertain to (5A or 5C) and the solvent system that each was developed in.
2. Identify each spot and calculate the R_f values.
3. What was your unknown sample # and the identity of your unknown?

4. Explain the relative R_f values for fluorene, fluorenol and fluorenone in terms of their polarities and structures.

5. Given the TLC evidence given in expt 5C, how long did it take for the product fluorenol to form and at what time was the reaction complete?

6. In the space below resketch the TLC plate from 5A. Next to it sketch the TLC for experiment 5A if you would have used **Hexane** as the developing solvent. Next to this, sketch the TLC for experiment 5A if you would have used **methanol** as the developing solvent.