**Chemistry 252  Experiment : Azo Dyes  Summer 2014**

**REPORT GUIDE**  Report Due: Aug 21, last day of lab

This will not be a formal report.

NAME ______________________________________

1. **Outline the synthesis of your dye.** Show the two reactants and the structure of the final organic product. (note: If you have both ortho and para products you only need to show one of them)

2. **Results from Part A**

Describe the color for each pH condition

<table>
<thead>
<tr>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acidic conditions (pH &lt; 7)</td>
</tr>
<tr>
<td>Basic conditions (pH &gt; 7)</td>
</tr>
</tbody>
</table>

Were you able to filter and isolate a precipitate after the initial reaction? If so how many grams? _______

Sketch the TLC plate and note the colors of each spot, Rf values and the solvent system (be sure to label which is from which procedure).
Were you able to isolate a dye(s) from the column?____ If so how many grams?________

What was the solvent system__________________

Give an overview on the column; was it successful, what would you have done differently?

3. Results for Part B
   Attach both (be sure to label which is from which procedure) your dyed Mulifabric cloth.

Question: On the back of this page write the mechanism for your dye reaction (the electrophilic aromatic substitution mechanism).