

This experiment will be done in pairs, but each person should turn in a separate lab report. This lab is worth 30 points.

• **Pre-lab:**

**Read:** Experiment 2 Parts A – D and E #1 (pages 13 – 17), Technique 10 (pages 637 – 644)

**Skim:** Techniques 1 and 2 (pages 542 – 565) and Technique 5 (pages 581 – 587)

**Prepare for class on Monday, January 7:** “Purpose” and “Materials and methods”.

Reserve and lay out a section for “Procedure” and “Data” and “Results”.

• **Post-lab:**

Complete “Results” section.

• **Lab Result Report: (Due Wednesday, January 16 at the beginning of lab)**

**Photocopy** the lab, all parts (“Calculation” excepted).

The following should be done on your own paper. At the top write your name **and** the name of your partner.

**For parts A - D** Starting at the bottom of page 18 under “REPORT”. Complete the instructions indicated on pages 18 and 19.

If your “Data” section contains the table asked for in question 1 of each of these parts, you may simply state “See Data section” (make sure you have photocopied it!).

The explanations for these results do not need to be written out in paragraph form. For example, see the example in Part A, #2. This explanation could be written out as follows:

Hexane - nonpolar  
*p*-dichlorobenzene - slightly polar

Since the polarities are similar, *p*-dichlorobenzene is soluble in hexane.

**For part E**

**1.** State your results and answer the question in step 1 on page 17.

**Answer** Questions 1a,b,c and 2 a,b,c,d,e on pages 19 and 20.