

## Bonding Lab

Purpose: To use evaporation and polarity to identify liquids.

Materials:  $C_3H_6O$ ,  $C_3H_7OH$ , filter paper, rubber band

Equipment: Lab Pros, computers, stainless steel temperature probes.

Procedure: Wrap filter paper around the end of a temperature probe and secure with a rubber band.  
Dip the probe into the liquid to be tested.

Begin collecting data (temperature vs. time) and then remove the probe to let it "air dry."

Collect data for about 3 minutes or until the cooling stops

Write Up:

1. Draw the molecules below:



2. Which molecule is more polar? \_\_\_\_\_

3. For which liquid will the molecules be least attracted to each other? \_\_\_\_\_

4. Would the more polar, or less polar liquid evaporate faster? \_\_\_\_\_

5. Based on the results of the lab, write the formula for liquid A: \_\_\_\_\_

6. Based on the results of the lab, write the formula for liquid B: \_\_\_\_\_

7. On the back of the page, describe how you determined your answers to questions 5 and 6.