

Group Members: \_\_\_\_\_

Date: \_\_\_\_\_ Per.: \_\_\_\_\_

LAB# \_\_\_\_\_

## The Bottle Lab

### Instructions

Step 1: Gather the following materials:

- Glass jug
- Matches
- Bicycle pump with rubber stopper
- Safety Goggles
- Water

Step 2: Fill the glass jug with about one inch of warm water.

Step 3: All members must now put on their eye protection.

Step 4: Light several matches and blow them out. Drop them into the jug while they are still smoking.

Step 5: Quickly place the rubber stopper in the mouth of the jug to seal the smoke and water inside.

Step 6: Begin pumping the bicycle pump, adding air to the jug. Continue until something happens.

Step 7: Carefully observe what occurs inside the jug.

Step 8: Repeat the experiment as needed.

Step 8: As a group, record your observations in the box below, then continue onto the back of this page.

### OBSERVATIONS

Group Members: \_\_\_\_\_

Date: \_\_\_\_\_ Per.: \_\_\_\_

Step 9: Using the image below, drawings and text, try and explain what occurred. Think about pressure, temperature and moisture while formulating your explanation. Be prepared to explain your thoughts to the class.

