Name: ______________________

**Liquid and Gas Burning Comparison**

**Procedure**
1. Put on safety goggles (entire class).
2. Tape a candle to a meter stick.
3. The reader reads the instructions for the demo twice. Those who are not the reader should carefully observe, diagramming or sketching the apparatus, and perhaps making hypotheses. The second time the instructions are read, the doer performs the actions.

**Demonstration #1:** Alcohol mixed with air and ignited
1. Pour not more than 4 mL of methanol or 7 mL of isopropyl alcohol from the bottle into a graduated cylinder in the hood.
2. Put the cap back on the alcohol bottle and bring the graduated cylinder to the front.
3. Pour the alcohol into the jug, putting the graduated cylinder on another table away from the jug.
4. The teacher should cap the jug and turn the jug over and around.
5. Light the candle far away from the jug.
6. The teacher will place the jug on the desk, take off the lid, and turn out the lights.
7. Staying far away from the jug, hold the flame near the top of the jug. Make observations.

**Demonstration #2:** Methanol again, but liquid, not evaporated into air
1. Measure about 5 mL of methanol or isopropyl alcohol from the bottle into the graduated cylinder in the hood.
2. Put the cap back on the alcohol bottle and bring the graduated cylinder to the front.
3. Pour it into a large watch glass.
4. Step away, light the candle, and staying far away, bring the flame to the alcohol. Make observations.

**Conclusion**
Write a compare and contrast paragraph about what you witnessed in class today.