**What’s Up with Air?** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Materials**

* 2 balloons of equal size
* 3 pieces of string at least 15 cm long
* A ruler
* A small needle

**Procedure**

1. Inflate two balloons until they are of equal size and tie them off.
2. Attach a piece of string to each balloon.
3. Attach the other end of the strings to opposite ends of a ruler. Keep the balloons the same distance from the end of the ruler. Your balloons should be able to dangle below the ruler (keep the “dangling” length the same for both balloons).
4. Tie the third string to the middle of the ruler. Hang this structure from the edge of a desk or support rod. Adjust the middle string until you find the balance point where the ruler is parallel to the floor.
5. Puncture one of the balloons with the needle. Observe and record the results below.

**Data**

Illustrate your experiment design below.

Record your observations below.

**Analysis**

What did this experiment demonstrate? Explain your reasoning using data from the experiment.