

Objective

- Observe the relationship between moving air and pressure.

Materials

- Paper (this lab sheet)
- Ping-pong ball
- 60 mL syringe
- 2 clear drinking straws
- Cup of water
- Funnel

Procedure

This lab consists of several events that you will analyze to make a conclusion.

Part 1

1. Hold a piece of paper, such as this lab sheet, under your mouth so that it stick out from your chin.
2. Blow hard across the top of the paper.
3. What happens when you blew over the paper? _____
4. Where was the air moving: above or below the paper? _____

Part 2

1. Place a ping-pong ball on the desk so that it is not rolling.
2. Use the 60 mL syringe to blow air on the right half of the ball.
3. Which way did the ball go: left or right? _____
4. Where was the air moving: left or right side of the ball? _____

Part 3

1. Set the ping-pong ball in a funnel.
2. Blow through the funnel at the ball like you are trying to blow the ball out of the funnel.
3. What happened? _____
4. Where was the air moving? _____

Part 4

1. Hold a straw vertically in a cup of water without the straw touching the bottom.
2. Use the second straw to blow air across the top of the vertical straw.
3. What happens to the water level in the straw? _____
4. Where was the air moving? _____

Conclusions

1. All the motion observed in this lab was caused by differences in pressure.
2. In all the experiments, which way is the object move: towards or away from the moving air?

3. An object will move from higher to lower pressure. Where was the pressure the lowest: moving or still air? _____
4. Where was the pressure the highest? _____

