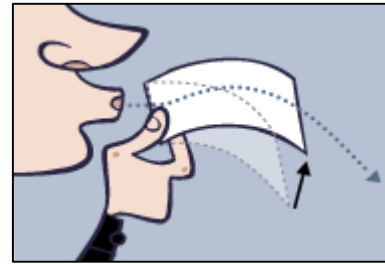




Paper Trail

1. **Cut** a piece of paper into a strip that is 3 inches wide and 8.5 inches long.
2. **Hold** an end of the strip just below your lips.
3. **Blow** a steady stream of air above the paper.
4. **What** happens to the paper when you blow?



Come Up for Air

The moving airstream above the paper has slightly lower pressure than the static atmosphere below. The **static** air below the paper has a higher pressure and tends to move toward the area of low pressure. The paper is moved upward by the higher pressure static air.

Bundle of Energy

Bernoulli's principle states that an increase in the **velocity** of a stream of fluid results in a decrease in **pressure**. The principle can be derived from the principle of **conservation of energy**. In a steady flow, the sum of all forms of energy in a fluid along a streamline is the same at all points on that streamline.

NAVY NOTES

Airplane wings are shaped so that airflow is faster over the top of the wing and the air pressure is lower. Under the wing, the airflow is slower and the pressure is higher. This causes lift and higher pressure under the wing pushes the wing up. The Navy relies on its planes and jets to deter threats, obtain information, and get supplies.

