

# Bernoulli

In the early 1700s, a Swiss mathematician named Daniel Bernoulli discovered that:  
**when flowing air or water changed its speed, its pressure also changed.**



## Materials:

- Paper—1 inch X 11 inches & 8 1/2 inches X 11 inches
- Balloons—round
- Yarn—6 inch pieces
- Straws—flexible & straight
- Soda cans—empty

As you do these activities, can you figure out how the pressure changes?

## Activities:

1. Hold a piece of paper (1 inch X 11 inches) between your thumb and forefinger. Now blow over the paper. What happens?
2. Blow up two round balloons and attach 6 inches of yarn to the end of each. Tie the ends of the yarn to a ruler and let the balloons dangle at eye level. Lift the pole over your head so the balloons are at eye level. Try to blow the balloons together. Can you do it? What happens? Try different ways of blowing on the balloons to see what happens.
3. Bend a flexible straw to form a right angle. Put the long end of the straw in your mouth and point the short end up. Hold a Ping-Pong ball over the straw. As you blow into the straw, let go of the ball. What happens? Play around with holding the straw in different ways. Can you tilt the straw and still keep the ball in the air?
4. Fold a piece of paper in half the long way (hot dog fold). What will happen when you blow into the tent? Try it.
5. Use a straw to blow between two empty soda cans. What happens?

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