

Organization Name: Council for Elementary Science International

Activity Name: Bernoulli's Cans

Activity Directions:

1. Activity Description: Exploring Place 23 straws on the table parallel to each other, about 1 cm apart.
2. Place the cans upright on the straws.
Position the cans approximately 5 cm apart.
3. Using a straw, blow between the cans. The cans roll toward each other, colliding with a clang.

Suggested Grade Level / Age Range: Grades 4-8

Science Content Covered : *Air movement, Bernoulli's Principle*

Time needed to complete the activity: 5-10 minutes

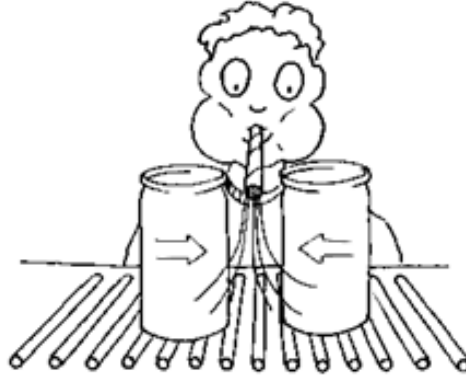
Activity Success Tips for Parents and Teachers:

As the velocity of the air between the two cans increases, the pressure the air it applies to the inner sides of the cans decreases. That allows the air on the opposing sides of the cans to push the cans towards the area of lower pressure. (The air pressure on the outer sides of the cans did not increase, instead there was a decrease in the pressure between the cans that allowed the cans to roll towards each other. The cans were not sucked together, they were pushed together).

You may want to elaborate on this activity by exploring Bernoulli's Principle check-out www.daviddarling.info/.../flight_Chapter1.html). In 1738, Bernoulli made a surprising discovery. It has become known as BERNOULLI'S PRINCIPLE.

But what happens if the air only moves over the top of an object and is still underneath? From Bernoulli's principle it follows that the pressure on top will be less than that underneath. Because of this we find the principle of the airfoil shape or wing and lift. *pressing force*

Insert Any Images / Photos / Drawings needed to help describe or explain the activity:



Activity and image

<http://www.mcrel.org/whelmers/whelm12.asp>

taken from

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