



## Challenger's Morning Science Segment:

May 16, 2016

**Topic:** Bernoulli's Principle

**Build:** Jumping Soda Can

### Credit:

<http://www.stevespanglerscience.com/lab/experiments/soda-can-jump/>

### Materials Needed:

Empty Soda Can / two coffee mugs [similar size works best]

**Make a Soda can Jump**—Open and empty the contents of a soda can. Place two mugs next to each other. Place the empty soda can in one of the mugs. Blow air into the small space between the soda can and the mug. It will jump out of the mug into the second mug. It will take practice and adjusting the distance between the mugs to get a slam dunk!

**The science [credit: <http://www.stevespanglerscience.com/lab/experiments/soda-can-jump/>]:**

Air pressure (Bernoulli's principle) is the magic that makes the soda can jump. Blowing between the soda can and the mug changes the speed of the air and thus the air pressure. The air pressure above the can, meanwhile, stays constant. Once the pressure difference becomes large enough, the can will make it jump out of the mug!

**This activity ties into the Challenger Learning Center of Maine:** Challenger holds STEM camps all summer long for entering grades K-8. We discuss forces of flight and many more activities during camp days filled with science and innovation. FMI- [www.astronaut.org](http://www.astronaut.org)