



Bernoulli Buddy

Instructions:

Using scissors carefully cut along the dotted line to cut out your Bernoulli Buddy. This Bernoulli Buddy will demonstrate how aerodynamics works.

Take your Bernoulli Buddy and hold it up with both hands, put it close to your mouth and blow over the top of the paper. When you do, something very interesting will occur. The paper will lift up. This is the same concept that lets an airplane achieve lift.

Science Behind It:

Bernoulli was a great scientist who first discovered many ideas on air pressure. His discovery is called the Bernoulli Principle.

Air moving over the top of an airplane wing moves faster than the air going below the wing. The air below the wing is traveling slowly and has high pressure. At the same time the faster air on top creates low pressure. Scientists call the high pressure the force of lift. To take off, a plane uses its engines to move fast along the runway. As it moves, air flows above and below the wings and causes lift. When there is enough lift to overcome the force of gravity, the plane takes off!

