



# BERNOULLI'S PRINCIPLE



1. Cut three sides of the striped shape **without** cutting off the hinge side.
2. Crease to bend at the hinge.
3. Curl the tab as in the instructions below.

**Activity 1 - Plane Wing Section:** HINGE THE TAB and Curl the tab down to simulate the wing and lowered flaps of an airplane wing. Blow over the top of the tab. Does the tab lift up or push down?

**Activity 2 - Car: Rear Wing:** Turn the paper over so the tab is curling up. Blow over the top of the tab. Does the tab lift up or push down?

**Activity 3 - Car Diffuser:** Keep the tab curled up to simulate a diffuser at back of the car. This time blow underneath the tab. Does the tab go up or down?

*Cut*



# BERNOULLI'S PRINCIPLE

*Hinge here ->*

*Cut*

*Cut*

*Cut*

As **AIR SPEED** increases, **AIR PRESSURE** decreases.  
Lower **AIR PRESSURE** on one side  
creates a **FORCE** perpendicular to that surface.