

Name: _____ Date: _____

Windy Tunnel Activity – Worksheet 1: Virtual Wind Tunnel

Directions

1. Go to http://web.archive.org/web/20120524022956/http://www.swe.org/iac/LP/wind_tunnel.html, and follow the directions for the wind tunnel activity.
2. The model will show you the velocity lines or air running over the wing. *Lines that are closer together show fast-moving air that causes lift!*
3. Record your results in the chart below.

Airfoil shape	Angle	Comments (i.e. Whether the shape has lift , no lift , or will stall .)
<i>Symmetric</i>	<i>0 degrees</i>	<i>No lift.</i>

Answer the following questions.

What airfoil shape and angle caused the most lift?

What airfoil shape and angle caused the plane to stall?
