

Name: _____ Date: _____

Windy Tunnel Activity – Worksheet 1: Virtual Wind Tunnel

Directions

1. Go to 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 of air running over the wing. Lines that are closer together show fast-moving air and 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, etc.)
<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 (puffy wind clouds above the wing)?
