

1. Connect the alligator clips to each of the metal spring clips
2. Connect the other end of each alligator clip to the multimeter
 - Set your multimeter to 2000m direct current voltage.
 - Is your reading negative or positive? If it is negative, switch the alligator clips connected to the multimeter.
 - If your reading is in the thousands, switch your multimeter to 20m direct current voltage.
3. Test the electromotive output of your fan
 - Use your wind source (such as a hair dryer) to spin the fan blades.
 - What was your voltage reading?
 - Does the voltage change if you move the wind source to the side?
4. Build your prototype
 - Use whatever household supplies you have available.
 - Make sure you think about the important principles of angle, weight, lift, and drag.
 - How might you best achieve aerodynamic flow?
5. Test your prototype
 - Retest your new design using your wind source
 - What voltage did you get?
 - Was it better or worse than the unmodified fan?
 - What could you do differently to improve your design?

