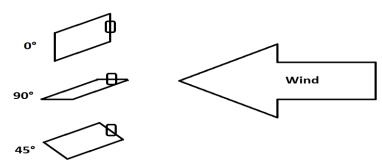
Name:	Date:	Class:	



Wind Turbine Design Post-Test



- 1. How are a wind turbine and a fan similar or different?
 - A. They are the same. They both turn wind into energy.
 - B. They are the same. They both turn energy into wind.
 - C. They are opposites. A wind turbine converts kinetic energy into electrical energy, and a fan converts electrical energy into kinetic energy.
 - D. They are opposites. A wind turbine converts electrical energy into kinetic energy, and a fan converts kinetic energy into electrical energy.
- 2. Which of the following *increases* the power generated by a wind turbine? Circle all answers that apply.
 - A. Increasing wind speed
 - B. Decreasing air density
 - C. Decreasing sunlight
 - D. Increasing blade size
 - E. Increasing rainfall
- 3. What happens to the power produced by a wind turbine if the blades are placed at each of the three angles below? Explain.



0°:

90°:

45°:

Name:	Date:	Class:

4. How would you design a wind turbine to collect the most energy? Draw an example and explain below.