**Renewable Energy Quiz**

I pledge on my honor that I have neither given nor received unauthorized aid on this quiz.   
  
X\_Loz Alexander McKenzie # 6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This is an open book and resource quiz. Please make sure you are following the honor code and using only the resources provided. Please do not use anything other than what is on this list. Make sure you use your own words and ideas.

**Resources to use:**

Energy Webquest

Renewable Resources and Nonrenewable Resources #2

Renewable Energy Pros and Cons

Renewable and Nonrenewable Energy Brainstorming

Renewable vs. Nonrenewable Resources

Googling answers or information is not allowed on this quiz.

Welcome to *Phillipsville*, we are happy you are here! *Phillipsville* is a quaint community that has everything you are looking for. Located on the roaring *Thompson* River delta that meets *Russell* Lake, *Phillipsville* is a popular spot for water activities such as skiing, lake surfing and parasailing. Our climate is ideal, as we see the sun around 360 days of the year, along with daily temperatures varying from 65-75 degrees F. The months of September through February bring warm winds from the Avant Desert. Occurring about 105 days out of the year, these winds blow steady in our community, perfect for a day at the beach with a kite! *Phillipsville* is about 375 square miles, with a population of 60,000 people. Also located in *Phillipsville* are 32 natural geysers that spout up steam from hot water beneath the Earth’s surface!

You need to decide which is the BEST alternative energy resource to be used in our great city. You need to describe WHY your alternative energy source should be chosen to be used as the sole source of energy for the citizens of *Phillipsville*.

Write in complete sentences. Please provide the following information:

1. What energy source would you recommend? (2 points) I would recommend wind because it is a renewable resource and it is unlimited.
2. What makes *Phillipsville* an ideal location for your alternate energy source? (Give at least **3** reasons explained in detail). (5 points) My alternate energy source makes Phillipsville an ideal location because it has so many great things to do. It is great because it is very hot in the summer wind can be great, it is an excellent power source, and it is a never ending resource.
3. How does your renewable energy work? Please give a detailed explanation. (3 points) It works because when the wind blows to the direction of the turbine it spins the turbine. Then it creates energy which powers the city and when the wind stops the power stops.
4. Why does your energy source beat out the other options? (Give at least **3** reasons explained in detail. You will need to compare your choice of renewable energy and show why it is more appropriate for this location than other choices). (6 points) My energy source is wind. One reason is because there is an unlimited supply. Another reason is because it does not create toxic air. The final reason is because it is renewable and clean.
5. What benefits does your energy source offer the citizens of *Phillipsville*? (Give at least **3** reasons explained in detail). (4 points) The benefits that my energy source offers to the citizens of *Phillipsville is cool air, energy, and renewable resources.*