## Wind Energy for the 90's NAME:\_\_\_\_\_

The following questions are related to the video <u>"Wind energy for the 90's"</u>. Answer all the questions as you watch the video. This will be collected and graded as 1 modular unit grade.

1.	List 3 different ways that we currently produce electricity in the U.S.?
2.	What do the letters OPEC stand for?
3.	Why do we need alternative ways of producing electricity, other than burning fuels?
4.	What were early windmills designed and built to do?
5.	When were the first electricity producing windmills built?
6.	Where are 80% of the electricity producing windmills located in the U.S.?
7.	Why is the San Gorgonio Pass such a great place for generating electricity from wind?
8.	How many wind turbines are there in the San Gorgonio Pass?
9.	What wind speeds allow today's wind turbines operate most efficiently?
10.	What does an anemometer do?
12.	Explain what the following parts of a wind turbine do :
	Hub
13.	What RPM (speed) is necessary to generate utility grade electricity?

14.	Why would it be bad to place one windmill directly behind another?
15.	List 2 reasons why we do not have electricity producing windmills everywhere
16.	List 2 down sides of nuclear power generation.
17.	List 2 down sides of wind power generation
18.	List 2 positive effects of generating power from wind.
10	NAME and take a Name according to the second of the second
19.	What does "renewable energy" mean?
20.	List 3 renewable energy sources available to us in the world today.

