

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**NATURAL RESOURCES:** Using your book and/or the computer, complete the table and worksheet concerning our natural resources. There may be some common answers between resources.

Resource – <b>INDICATE</b> if renewable (R) or non-renewable (NR)	Explain 2 advantages to using this energy (Environmental benefits)	Explain 2 disadvantages in using this energy (environmental costs)
Solar _____	a.  b.	a.  b.
Nuclear _____	a.  b.	a.  b.
Oil (petroleum-source of gas for cars)_____	a.  b.	a.  b.
Natural Gas _____	a.  b.	a.  b.
Coal _____	a.  b.	a.  b.
Minerals/Gems _____	Name two gems	Name two minerals that are resources
Gravel _____	In what industry do we use this resource the most?	NA
Sand _____	What major industry uses this?	NA
Geothermal _____	a.  b.	a.  b.
Hydroelectric(dams) _____	a.  b.	a.  b.
Tidal _____	a.  b.	a.  b.
Wind _____	a.  b.	a.  b.

1.. Explain the difference between renewable and non-renewable resources and provide an example for each.

PROCESSES TO ACQUIRE ENERGY SOURCES:

2. a. What is a cap rock, in terms of petroleum products (p. 173 in book)? \_\_\_\_\_  
b. If you were a geologist looking for oil or gas why would you look for a cap rock? Use a labeled diagram in your answer.

3. A company has determined that there is gas in the shale deep in the Earth on your property and would like to use fracking (hydraulic fracturing) to extract it. They will pay good money to set up a fracking station on your land. Since you are in the country, you depend on well water for all your water needs as do all your neighbors.

a. Explain/define what fracking is and diagram the process.

b. Would you accept money and allow fracking on your land? Explain your answer in a minimum of 3 sentences explaining the pros and cons of their proposal.

Extra Credit: Now that you have had a chance to examine the advantages and disadvantages of different types of energy, propose to the President at least **two resources** that you could develop that would have the U.S. rely less on fossil fuels for energy. In your proposal be sure to indicate the advantages and disadvantages of your ideas. The President is educated would prefer to read your proposal in proper grammatical form (i.e. use complete grammatically sentences in your proposal). Your proposal should have a minimum of two paragraphs.