Chapter 17
REVIEW QUESTIONS
p 349
1 - Explain why a tire swing is a good example of conservation and conversion of energy.
p 350
2 - Explain why the stalled car restarting can be an example of the second law of thermodynamics.
p 350 -352
3 - Give examples of first and second law efficiencies. What is the difference between these two types of efficiencies?
4 - What is “the grid?”
p352-353
5 - The US has _____ percent of the world’s population and uses _____ percent of the world’s energy.
6 - What percent of US energy is from fossil fuels?
7 - What are some examples of alternative energy sources?
7a. What is “cogeneration?”

p 355
8 - What are some ways the book suggests for creating more efficient building designs?
p 355
9 - Contrast how building efficiency might be improved in new vs. old buildings.
10 - What is the main reason that industries have been able to have higher productivity with less energy use?
11 - Describe how cars have canged in recent years in terms of energy efficiency.
11a - What are the key provisions of the energy policy act of 2005?
Pg 357
12 - According to the book, why is the “hard path” more comfortable?
13 - According to the book some people defend the hard path by saying it would decrease environmental destruction. How would this be so?
14 - What are the characteristics of the “soft path” according to Amory Lovins?
p 358
15 - Describe some ways that energy use can differ from region to region.
16 - Contrast the two possible scenarios for energy usage in the year 2030.
p 356-357
17 - How might taxation be used to help conserve energy usage?
p 359
18 - What characteristics would sustainable energy have?
19 - Describe some ways that a sustainable energy plan might be constructed.