Name _____ Class_____Date_____

Skills Worksheet

Chapter Review

USING KEY TERMS

The statements below are false. For each statement, replace the underlined term to make a true statement.

1. A liquid mixture of complex hydrocarbon compounds is called <u>natural gas.</u>

_____

2. Energy that is released when a chemical compound reacts to produce a new compound is called <u>nuclear energy</u>.

_____

For each pair of terms, explain how the meanings of the terms differ.

3. *solar energy* and *wind power*

_____

_____

4. *biomass* and *gasohol*

_____

_____

UNDERSTANDING KEY IDEAS

Multiple Choice

_____ 5. Which of the following resources is a renewable resource?
   a. coal
   b. trees
   c. oil
   d. natural gas

_____ 6. Which of the following fuels is NOT made from petroleum?
   a. jet fuel
   b. lignite
   c. kerosene
   d. fuel oil

_____ 7. Peat, lignite, and anthracite are all forms of
   a. petroleum.
   b. natural gas.
   c. coal.
   d. gasohol.

_____ 8. Which of the following factors contributes to smog?
a. automobiles
b. sunlight
c. mountains surrounding urban areas
d. All of the above

_____ 9. Which of the following resources is produced by fusion?
a. solar energy
b. natural gas
c. nuclear energy
d. petroleum

_____ 10. To produce energy, nuclear power plants use a process called
a. fission.
b. fusion.
c. fractionation.
d. None of the above

_____ 11. A solar-powered calculator uses
a. solar collectors.
b. solar panels.
c. solar mirrors.
d. solar cells.

Short Answer

12. How does acid precipitation form?

_____

_____

_____

13. If sunlight is free, why is electrical energy from solar cells expensive?

_____

_____

_____

14. Describe three ways that humans use natural resources.

_____

_____

_____

15. Explain how fossil fuels are found and obtained.

_____

_____

_____

CRITICAL THINKING

16. **Concept Mapping** Use the following terms to create a concept map: *fossil fuels, wind energy, energy resources, biomass, renewable resources, solar energy, nonrenewable resources, natural gas, gasohol, coal,* and *oil*.

17. **Predicting Consequences** How would your life be different if fossil fuels were less widely available?

_____

_____

18. **Evaluating Assumptions** Are fossil fuels nonrenewable? Explain.

_____

_____

19. **Evaluating Assumptions** Why do we need to conserve renewable resources even though they can be replaced?

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20. **Evaluating Data** What might limit the productivity of a geothermal power plant?

_____

_____

21. **Identifying Relationships** Explain why the energy we get from many of our resources ultimately comes from the sun.

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_____

22. **Applying Concepts** Describe the different ways you can conserve natural resources at home.

_____

_____

23. **Identifying Relationships** Explain why coal usually forms in different locations from where petroleum and natural gas form.

_____

_____

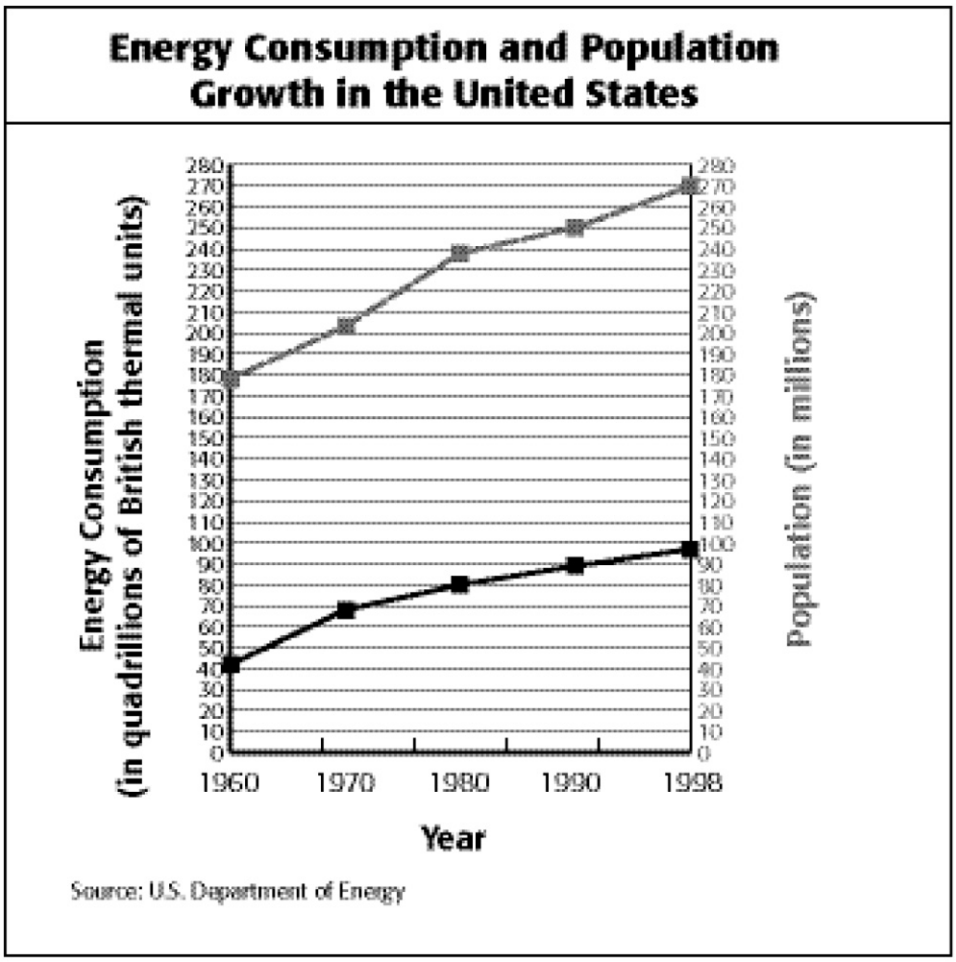
24. **Applying Concepts** Choose an alternative energy resource that you think should be developed more. Explain the reason for your choice.

_____

_____

INTERPRETING GRAPHICS

Use the graph below to answer the questions that follow.



25. How many British thermal units were consumed in 1970?

_____

26. In what year was the most energy consumed?

_____

27. Why do you think that energy consumption has not increased at the same rate as the population has increased?

_____

_____

_____

_____