Chapter 4 Book Notes

Energy and Mineral Resources

1. What is a renewable resource? ____________________________________________________________

2. List at least three examples of renewable resources. ________________________________

3. What is a nonrenewable resource? _______________________________________________________

4. List at least three examples of nonrenewable resources. ________________________________

5. What is a fossil fuel? _________________________________________________________________

6. List at least three examples of fossil fuels. ______________________________________________

7. What are the four stages of development of coal? ________________________________

8. What are two problems with the usage and mining of coal? ________________________________

9. How do petroleum (oil) and natural gas form? ___________________________________________

10. What is an oil trap? _________________________________________________________________

11. What two features must an oil trap have? ______________________________________________

12. What world resource supply is expected to dwindle in the future? _______________________

13. What are tar sands and oil shale? _______________________________________________________

14. What are mineral resources? _________________________________________________________
15. What are the two broad categories of nonmetallic mineral resources?

Alternate Energy Sources
16. What is solar energy? __________________________________________________________

17. What are the advantages and drawbacks of using solar energy? ________________

18. How do nuclear power plants produce energy? _________________________________

19. What are 3 obstacles have slowed the development of nuclear power? __________

20. What percentage of out energy might be met by wind power over the next 60 years? __________

21. What are 3 obstacles to the development of future use of wind power? ______

22. What is hydroelectric power? ________________________________________________

23. What are the advantages and drawbacks of hydroelectric power? _____________

24. What is geothermal energy? _________________________________________________

25. What are the advantages and drawbacks of geothermal energy? ____________
26. From where and how does tidal power draw its energy? ________________

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27. What are the advantages and drawbacks of tidal power? ________________

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**Water, Air, and Land Resources**

28. List four ways people use fresh water? ________________________________

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29. Define the following words.
   a. Point source pollution: ________________________________

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b. Nonpoint source pollution: ________________________________

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c. Runoff: ________________________________

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30. What are gases such as carbon dioxide and methane called that help maintain the warm temperatures near the surface of Earth?

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31. What is Earth’s major source of air pollution? ________________________________

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32. List four resources that Earth’s land provides. ________________________________

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33. What are some negative impacts or damage that mining can cause to the land?

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**Protecting Resources**

34. Define the following words.
   a. Conservation: ________________________________

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b. Compost: ________________________________________________________________
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c. Recycling: ______________________________________________________________
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35. Which law requires industries to reduce or stop point source pollution into surface waters?

36. Which law sets maximum contaminant levels for water pollutants that could harm people’s health?

37. How could using electricity help to reduce air pollution? ________________
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38. What are two ways land resources can be protected? _____________________
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39. What law requires companies to store, transport, and dispose of their hazardous wastes according to guidelines?

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