**Chapter 18 Guided Reading** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Section 1***

1. The Earth provides \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ needed for life.
2. Any resource that the Earth provides to humans is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Name four (4) examples of natural resources.
4. Differentiate between renewable and nonrenewable resources.
5. Name two examples of renewable resources
6. Name two examples of nonrenewable resources.
7. Name three (3) ways that you can conserve natural resources. Give examples from the book.
8. What is recycling and why is it important when it comes to conserving natural resources?

***Section 2***

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are natural resources that humans use to generate energy.
2. Where does majority of the energy we (i.e., humans) use come from?
3. Define fossil fuel.
4. Name three (3) types of fossil fuels.
5. What is related from fossil fuels when they are burned?
6. What element from the periodic table is found in all living things?
7. Name two types of fuel can be made from petroleum?
8. What percentage of the world’s energy comes from petroleum?
9. A gaseous mixture of hydrocarbons is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. What is the main component of natural gas?
11. What type of living organism forms coal?
12. Why did people in the early 20th century reduce their use of coal?
13. Petroleum and natural gas form mainly from what?
14. Coal forms underground over millions of years when pressure and heat causes changes in the remains of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. What are the four (4) stages of coal formation.
16. Are any fossil fuels found in Tennessee? Which one(s)?
17. How do people remove petroleum and natural gas from the Earth?
18. How do people remove coal from the Earth?
19. What is one of the acids found in acid rain?
    1. How did get in the atmosphere?
20. What is smog?

***Section 3***

1. What are the two (2) main problems with fossil fuels?
2. Differentiate between nuclear fission and nuclear fusion.
3. Name one (1) pro and one (1) con for using each of the Alternative Forms of Energy.

|  |  |  |
| --- | --- | --- |
| Type of Fuel | Pro | Con |
| Chemical |  |  |
| Geothermal |  |  |
| Hydroelectric |  |  |
| Nuclear |  |  |
| Plants |  |  |
| Solar |  |  |
| Wind |  |  |