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

**Natural Resources Review**

Part 1: Identify the Chart

*Directions: Using the phrase bank below, place the number in the correct space in the chart.*

|  |  |  |
| --- | --- | --- |
| **Energy Type** | **Advantages** | **Disadvantages** |
| Coal | easy to transport |  |
| Oil |  | spills into the ocean, nonrenewable, drilling expensive |
| Solar | renewable, does not pollute, clean |  |
| Wind | free, renewable, does not pollute |  |
| Hydroelectric |  | dams cause environmental damage/harm |
| Geothermal  | renewable, does not pollute |  |
| Nuclear | produces huge amount of energy |  |
| Biomass  |  | can produce air pollution |

Phrase Bank:

* 1. limited availability because magma only comes close to surface in few locations
	2. radioactive waste
	3. what is burned can be replaced either by humans or nature within short amount of time
	4. pollutes air when burned
	5. requires sunshine and not always sunny
	6. generators noisy, requires strong and steady wind and not always windy
1. produces large amount of energy
2. new lakes made, no pollution

Part 2: Fill-in-the-Blank-*Use the correct term(s) to fill in the blank.*

1. *A* \_\_\_\_\_\_\_\_\_\_\_\_ resource is a natural resource that forms at a rate that is much slower than the rate at which it is consumed because it takes millions of years to reform.
2. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ resource is deposit of minerals that is valued and used by humans.
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ resource is a natural resource that can be replaced within a short amount of time or at the same rate at which the resource is used.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or nonrenewable resources, formed millions of years ago from the remains of plants and animals.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process by which used or discarded materials are treated for reuse of made into new products.

What two forms of energy does the sun supply?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2.

What are the three fossil fuels?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part 3: Short Answer-*Answer in complete sentences*

1. A friend of yours argues that shopping malls should use solar energy to conserve fossil fuels. How would you respond?

Part 4: Identify-*Are these resources nonrenewable (N) or renewable (R)?*

1. Wood \_\_\_\_\_\_\_\_
2. Minerals \_\_\_\_\_\_\_
3. Oil \_\_\_\_\_\_\_\_
4. Sunlight \_\_\_\_\_\_\_
5. Wind \_\_\_\_\_\_\_\_
6. Rocks \_\_\_\_\_\_\_\_
7. Coal \_\_\_\_\_\_\_\_
8. Natural Gas \_\_\_\_\_\_\_\_
9. Water \_\_\_\_\_\_\_\_

Part 5: Multiple Choice-*Circle the best choice.*

1. Which of the following determines whether a resource is a renewable resource or a nonrenewable resource?
	1. the cost for obtaining and using the resource
	2. the effects of the resource on the environment
	3. whether the resources is used to generate energy or is made into products
	4. the rate or time at which the resource can be replaced
2. Which of the following statements about all fossil fuels is true?
	1. Fossil fuels are liquids.
	2. Fossil fuels are found only on land.
	3. Fossil fuels are renewable resources.
	4. Fossil fuels form from the remains of ancient (old) organisms (plants and animals).
3. What is the most common way to release biomass energy?
	1. to burn it
	2. to recycle it
	3. to compress and heat it
	4. to change it into oil
4. Which type of fuel forms when pressure and heat cause changes in the remains of swamp plants?
	1. coal
	2. petroleum
	3. oil
	4. natural gas
5. Nonrenewable energy resources are being used faster than natural Earth processes can replace them.
	1. True
	2. False

**Energy Use in the U.S.**

DIRECTIONS: Using the data below, label the sections of the circle graph and color each section a different color.

Biomass 2%

Natural Gas 25%

Solar, Wind, Geothermal 3%

Nuclear Energy 6%

Oil (Petroleum) 40%

Coal 19%

Hydroelectric Power 5%

DIRECTIONS: Answer these questions using the graph and what you know about energy sources.

1. Which energy source provides the most energy? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this renewable or nonrenewable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which energy source is used the least amount? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this renewable or nonrenewable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What percentage represents all renewable energy sources? \_\_\_\_\_\_%
2. What percentage represents all nonrenewable energy sources? \_\_\_\_\_%
3. What percentage of the energy sources are fossil fuels? \_\_\_\_\_\_\_%
4. What energy resources are known as fossil fuels? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_