

Name: Answers

Unit 1 Test 2 Study Guide

Directions: Write the definition next to each vocabulary word.

1. Renewable Energy Resource- is a source of energy that will never run out.
2. Fossil Fuels- is a source of energy that formed from the remains of plants and animals that lived millions of years ago
3. Nonrenewable Energy Resource- is an energy source that will eventually run out.
4. Solar Energy- is heat and energy harnessed from the sun rays through the use of solar panels.
5. Wind Energy- is energy harnessed from blowing wind, usually from the use of turbines in large windmills.

Directions: List the energy resources and their effect on the environment in the tables below.

Nonrenewable Energy Resources	Effects on the environment
1. Coal	Air pollution, damages land, and pollutes water in the ground
2. Oil	Air pollution, oil spills harm ecosystems
3. Natural Gas	Drilling for it can pollute air and water
4. Uranium	wastes from power nuclear power plants can cause harm to living things, including people

Renewable Energy Resources	Effects on the environment
1. Solar energy	Require large amounts of land and use depends on weather available sunlight
2. Wind energy	Require large amounts of land, may harm bird populations, power
3. Hydroelectric energy	Hydroelectric dams destroy river habitats and may disrupt fish populations.

Directions: Fill in each blank using the word bank below.

Biodigester	Wind Turbine	Generators	Solar Panel
battery	Uranium	Solar Energy	Power plant

6. A power plant converts the energy stored in fossil fuels.
7. Solar energy is a renewable resource used to produce electricity.
8. A battery contains stored energy and converts it into electrical energy.
9. Generators transform the energy of motion into electricity.
10. A wind turbine changes the energy of motion into electricity without the use of fossil fuels or nonrenewable resources.
11. In a nuclear power plant, a reaction in uranium is used to produce electricity.
12. A biodigester transforms waste into methane gas.
13. If an Engineer is designing a device that will convert solar energy into electricity. He will use a solar panel to power his device.