

Unit C: Chapter 3 Study Guide

Match each term to its definition.

Terms: natural resource
fossil fuel

nonrenewable resource
turbine generator

renewable resource
recycling

1. _____ the collection and treatment of discarded materials to make them into useful products
2. _____ a resource that is fairly easy to replace if it is used
3. _____ a machine with a wheel and blades that changes the energy in steam, wind, or water to mechanical energy
4. _____ a useful material taken from the environment
5. _____ a machine that changes the mechanical energy of a turbine into electrical energy
6. _____ substances that cannot easily be replaced once they are used
7. _____ an energy resource that was formed from organisms that died long ago

Classify each resource as renewable or nonrenewable.

8. _____ coal
9. _____ wind
10. _____ natural gas
11. _____ water
12. _____ wood
13. _____ methane
14. _____ uranium
15. _____ solar energy
16. _____ heat trapped inside the earth
17. _____ biomass
18. _____ petroleum

Unit C: Chapter 3 Study Guide

Match the term for each type of electrical energy to its original power source.

19. _____ energy comes from heat trapped inside the earth
20. _____ energy comes from the sun
21. _____ energy comes mostly from uranium
22. _____ energy comes from moving water
23. _____ energy comes from burning organic matter that is
now trash
24. _____ energy comes from moving air

What are the two things that you need to make a location good for solar energy use?

Locate two places on a world map that would be good places to use solar energy. Be able to find them on an unlabeled world map for the test!

The three "R's" of saving our energy resources are reduce, reuse, recycle. List two examples of things you can do to help in each of those three areas.

Reduce: _____

Reuse: _____

Recycle: _____

What 3 things are saved when you recycle materials instead of trashing them?

Unit C: Chapter 3 Study Guide

Fill in the blanks to complete the steps used to turn a fossil fuel into electrical energy.

1. A fossil fuel is _____ in the _____ to produce heat.
2. The heat turns water into _____.
3. Inside the pipes, the steam pushes against the _____ of a _____.
4. The blades are connected to a spinning _____ connected to the _____.
5. The generator changes the mechanical energy of the spinning shaft into _____ energy.