Review Questions for Energy Bingo

1. Anything that has mass and takes up space (**matter**)

2. The type of energy that is related to motion or position of matter (**mechanical energy**)

3. Stored energy (such as that found in fossil fuels) (**chemical energy**)

4. The SI unit for mass (**kilogram**)

5. Steam from heated water turns turbines—this is a conversion of what kind of energy to what kind of energy (**thermal to mechanical**)

6. A material that releases chemical energy when burned (**fuels**)

7. Energy is neither created nor destroyed—what Law is this? (**1st Law of Thermodynamics**)

8. A nuclear reactor that is powered by fission reactions to ultimately generate electricity—this is a conversion of what kind of energy to what kind of energy? (**nuclear to electrical**)

9. Electrical energy results from the movement of ? from place to place? (**electrons**)

10. The type of fuel formed from decayed plant remains and is the most plentiful fossil fuel in the US is what? (**coal**)

11. Visible light is a form of what kind of energy? (**electromagnetic**)

12. This fossil fuel produces the lowest levels of air pollutants (**natural gas**)

13. A natural resource that is not (or cannot be) replaced as it is used. (**Nonrenewable**)

14. When you rub your feet on the carpet and then touch the metal desk leg, the shock you get is an example of what kind of energy? (**electrical energy**)

15. Not available at night. Must be collected from a huge area. Can be expensive. These are all disadvantages of what type of energy? (**Solar energy**)

16. The vibration and movement of molecules in matter is what kind of energy? (**thermal energy**)

17. What kind of energy is actually an indirect form of solar energy? (**wind energy**)

18. Potential energy that depends on height is called what? (**Gravitational energy**)

19. This is the most widely used renewable energy in the world (**hydroelectric**)

20. The form of energy that is stored is known as what? (**potential energy**)

21. Wood, plant matter, and sometimes even waste are all examples of what kind of fuel? (**biomass fuel**)

22. A rolling ball, a rock falling off a cliff, a person jumping on a trampoline. . .what kind of energy do all three of these have in common (**kinetic energy or mechanical energy**)

23. The intense heat found under the Earth’s crust is what kind of energy? (**geothermal**)

24. The form of energy that is associated with motion is known as what? (**kinetic energy**)

25. Heat released from nuclear fission reactions is used to change water into steam. What is this form of energy called? (**Nuclear**)

26. The ability to do work is called what? (**Energy**)

27. A change from one form of energy to another is called what? (**Energy transformation**)

28. Reducing energy use is what this term means (**Energy conservation**)

29. Find an example on your card of energy causing change (**chopping wood, picking up a bowling ball, boiling water**)

30. Electromagnetic energy is energy that travels in what kind of waves? (**transverse**)

31. Movement of energy through substances in longitudinal waves is what kind of energy? (**sound energy**)

32. What is one advantage of using a renewable source of energy? (**clean, reduces use of coal**)

33. What is one major drawback to using coal? (**air pollution**)

34. What is the SI unit for volume? (**mL**)

**All terms used**:

matter

mechanical energy

chemical energy

kilogram

thermal to mechanical

fuels

First Law of Thermodynamics

nuclear to electrical

mechanical energy

coal

electromagnetic

natural gas

chemical energy

Nonrenewable

electrical energy

Solar energy

thermal energy

wind energy

Gravitational energy

hydroelectric

potential energy

biomass fuel

kinetic energy

geothermal

kinetic energy

Nuclear

Energy

Energy transformation

Energy conservation

chopping wood

picking up a bowling ball

boiling water

volume

pound

heat

electricity

energy gain

friction

compressed spring

electrons

transverse

sound energy

clean

reduces use of coal

air pollution

mL