Energy Study Guide

l. What is energy?

2.	Potential Energy is the energy of	or	(stored energy).	
3.	Kinetic Energy is the energy of	<u>.</u> .		
4.	Mechanical Energy is the	of	and	of an object
	What is the mathematical formula for Mecha			
For	ms of Potential Energy:			
6.	Energy stored in stretched out items is called potential energy.			
7.	Stored energy given to an object after it has been lifted or elevated is called potential en			
8.	Stored energy released from chemical compoun	nds is called	potential energi	J .
For	ms of Kinetic Energy:			
9.	The total energy of an object due to the kine	etic energy of its a	itoms & molecules (heat o	energy) is called
	energy.			
10.	Energy made available by the flow of an elect	tric charge through	n a conductor is called	energy.
.	Energy caused by electromagnetic radiation is called energy.			
12.	energy is energy associated with the vibration or disturbance of matter.			
13. The energy associated with the changes in the nucleus of an atom through fission or fusion is				on is called
	energy.			
14.	Give an example of each type of energy. Write the example beside the name of the energy.			
	a. Elastic	g.	Mechanical	
	b. Light	h.	Chemical	
	c. Nuclear	i.	Thermal	
	d. Gravitational			
	e. Sound			
	f. Electrical			
15.	A change from one form of energy into another is called an			
	Name the different forms or types of energy you would have jumping on a trampoline.			
17	What is the formula for Kinetic Energy?			
	How does mass effect energy?			
IU.	TION 4000 ITIANS OF FOOT OFFICINGS			
19.	How does speed effect energy?			

- 20. At what point does a roller coaster have the greatest potential energy? Explain.
- 21. At what point does a roller coaster have the greatest kinetic energy? Explain.
- A A A D

- 22. What is happening at Point B on the roller coaster?
- 23. What is the energy conversion for each of the following items:
 - a. Alarm clock?
 - b. Battery?
 - c. Light bulb?
 - d. Blender?
 - e. Photosynthesis?
- 24. What is the Law of Conservation of Energy? Explain the law.
- 25. You have 20 joules of chemical energy in a log. Once you put the log on the fire, the energy is converted. How much light energy is converted if you have 10 joules of thermal energy and 2 joules of sound energy? Explain
- 26. Define Renewable Energy Resource.
- 27. Give 5 examples of renewable energy.
- 28. Define Nonrenewable Energy Resource.
- 29. Give 5 examples of nonrenewable energy.

Put Glue Here