Lesson Outline

LESSON 1

Forms of Energy

A. What is energy?

	1.	is the ability to cause change.			
	2.	Energy can cause an object	t to	its position or its motion.	
В.	Kin	etic Energy—Energy of Mot	ion		
	1.	Energy due to motion is			
	2.	The faster an object moves	, the	kinetic energy it has.	
	3.	The kinetic energy of an olas its speed.	bject depends on its	as well	
	4.	4. If two objects move at the same speed, the object with the			
		mass will have more kinetic energy.			
с.	Pote	ential Energy—Stored Energ	У		
	1.	is stored energy.			
	2.	When you are holding a book energy is stored between the book and Earth;			
		this type of energy is called	d	_ potential energy. This	
	type of potential energy stored between an object and Earth depends o			Earth depends on the	
			_ and	of the object.	
	3.	B. Elastic potential energy is energy stored in objects that are compressed			
		or			
	4.	4. When you stretch a rubber band, you are storing potential energy. When you let go of the rubber band, stored elastic potential			
		energy is transformed into		_ energy.	
	5.	Food has	potential energy	, which is the	
	energy stored in the bonds between atoms. This energy is released whe			y is released when	
			_ occur.		
D.	Ene	ergy and Work			
	1.		_ is the transfer of energy th	nat occurs when a force is	
		applied over a distance.			
	2.		_ is sometimes described as	the ability to do work.	

Name Date Class

Lesson Outline continued

- **E.** Other Forms of Energy
 - 1. Energy can be measured in units of ______.
 - **2.** ________ is the total kinetic energy and potential energy in an object or group of objects.
 - **3.** The energy carried by sound waves is ______. It is produced by objects that _____
 - 4. All materials are made of atoms and molecules that are always

_____. The energy of atoms and molecules due to their

motion is _____.

- **5.** ________ is the energy carried by an electric current.
- **6.** _____, such as microwaves, can travel through a vacuum.
- 7. The energy of electromagnetic waves is called ______ _.
- **8.** ________ is stored in the nucleus of an atom.
- **9.** The Sun releases nuclear energy when the ______ of atoms join together.
- **10.** Nuclear power plants release energy by ______ nuclei.