

Name

Work and Energy

Date

Part A. Vocabulary Review

Review

Directions: Match the description in the first column with the term in the second column by writing the correct letter in the space provided.

1. total amount of kinetic and potential energy	a. energy
in a system	b. work
2. the ability to cause change	c. kinetic energy
3. stored energy due to position	d. law of conservation of energy
4. energy in the form of motion	e. gravitational potential
5. Energy cannot be created or destroyed	energy
6. does work with only one movement of the machine	f. mechanical energy
7. energy stored in chemical bonds	g. potential energy b simple machine
8. ratio of output work to input work	i. efficiency
9. energy stored by things that are above earth	j. chemical potential
10. SI unit of energy	energy In ioula
11. force applied through a distance	к. јоше

Part B. Concept Review

Directions: Complete the following sentences using the correct terms.

 The amount of kinetic energy a moving object has depends on its mass and its
 2. The potential energy of an object depends on its
 3. The energy stored in foods and fuels is potential energy.
 4. The law of states that energy cannot be created or destroyed.
 5. A compound machine is a combination of two or more
 6. The number of times a machine multiplies the effort force is the of the machine.
 7. You convert kinetic energy into thermal energy when you rub two sticks together because of

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C	hapter Review (continued)			
	8. The tot	al energy of a system ren	nains	
	9. Screws	and wedges are modified	1	
	10. A car e	ngine changes chemical j _ energy of the moving c	potential energy into the ar.	
11.	• Use the equation $KE = \frac{1}{2}m \times v^2$ to call speed of 7 m/s?	lculate the kinetic energy	of a 100 kg cart moving at a	
12.	Use the equation $GPE = m \times 9.8 \text{ m/s}^2$ sack of groceries on a shelf 1 m above	$h^2 \times h$ to calculate the gravi e the floor?	tational potential of a 10-kg	