The Nature of Energy Types of Kinetic and Potential Energy

Question:
What is ENERGY ?
List some examples of different forms of energy: *there are more than the ones on this slide*
• • • •
KINETIC ENERGY:
The amount of kinetic energy depends on and of the moving object.
List examples of kinetic energy:
•
POTENTIAL ENERGY:
List examples of potential energy:
• •
TRUE or FALSE There is more than one type of potential energy.

Different T	ypes	of P	otential	Energy
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•	Potential Energy: energy				
by something that o	can or				
	or				
•	Potential Energy: energy stored in				
Fxample:	· 				
• Example:	Potential Energy: anything that can				
has stored GPE					
Example:					
MECHANICAL ENERGY:					
Mechanical Energy	=+				
TRUE or FALSE Energy ca	n be created.				
TRUE or FALSE Energy ca	an NOT be transformed.				
•	alb takes electrical energy and transforms it into and thermal energy.				
	entific law that says energy may change form, but it byed under ordinary conditions?				
•	each word with its description.				
1. Energy	A. stored energy due to position				
2. Gravitational Potential	Energy B. energy stored in food and fuels				
3. Kinetic Energy	C. energy stored by things above Earth				
4. Elastic Potential Energy	y D. the ability to cause change				
5. Chemical Potential Ene	ergy E. energy in form of motion				
6. Potential Energy	F. energy stored by things that stretch				

7. Identify each as Potential Energy (gravitational, chemical, elastic), Chemical Energy, Mechanical Energy, Thermal Energy, Kinetic Energy, Light Energy

Example	Type of Energy
a cookie	
going down a slide	
a horse racing across a pasture	
a battery	
the sun	
photosynthesis	
a bird sitting on a power pole	

	a battery			
	the sun			
	photosynthesis			
	a bird sitting on a power pole			
8. Which of energy?	the following could be	used to co	onvert light energy to elect	rical
A. Wind	lmill	C. Rotat	ting coils in a magnetic field	t
B. Chen	nical storage battery		-	
9. The store	d energy in a battery ca	an best be	e described as .	
A. Ther		C. Nucle		
B. Chen			tic	
10. What kir	nd of energy does a win	ndmill use	to do work?	
A. Elect	• •	C. Chen		
B. Nucle	ear	D. Mecl	nanical	
11. The amo	ount of kinetic energy a		object has depends on its	
12. The sun	gives off what two form	ms of ene	rgy? a	and
13. An elect	•	on a cold	evening. How did energy	
14. Your car energy char	_	g outside i	in the sun all day. How did	