Forms of Energy and Energy Transformations

LT: I can identify and describe the different forms of potential and kinetic energy.

LT: I can give/	explain examples of energy	transformations		
Potential and Kinetic	•	v ag aithan natanti	al ananay (D) an kinatis an	oney (V)
identify each of the	e following forms of energ	y as enner potentia	ir energy (F) or kinetic en	ergy (K).
Sound K	Nuclear P	Elastic P	Electric K	
Chemical P	Gravitational P	Thermal K	Electromagnetic	<
a. Choose one c	of the above forms of pote	ntial energy and de	scribe why it fits in this	category.
<u>Answe</u> l	<u>r</u> - Nuclear is potential as th releases this energy.	ne energy is stored i	n the nucleus of an atom. S	Splitting the nucleus
	of the above forms of kine - Electric is kinetic as the This movement of the elec	energy is in the elec	ctrons which are moving fr	om atom to atom.
Forms of Energy Match the energy f	orm(s) to the description p	rovided. Questions	may have more than one	answer.
HI.	A boulder at the top of a h	ill	a. Translo	itional motion
C, E, J2	R.Release of energy from th	e Sun	b. Electri	С
3. A	coiled spring		c. Electro	magnetic (radiant)
4. E	Batteries not in use		d. Chemic	al
B5. T	he energy that runs a refrig	gerator	e. Nuclea	•
C, E, J6	6. Nuclear fission reactors		f. Sound	
F 7.	The thunder from a storm		g. Elastic	
A, F, J8.	Rubbing your handstogeth	ner	h. Gravito	ational
D9. (Gasoline stored in a tank		i. Rotatio	nal motion
			j. Thermal	(heat)

D	10. Food before it is eaten
A, F	11. A guitar string vibrating
<u>I</u>	12. A top spinning
F, H	13. Sledding down a hill
J, C	14. Candle burning
G	15. A taut rubber band (fully stretched)

Transformation of Energy II

Describe a scenario with the following energy transformations (do not include examples from above):

- a. Electric energy being converted into sound energy

 <u>Answer</u> an amplifier playing music from a tablet.
- b. Chemical energy being converted to motion energy

 <u>Answer</u> a car engine.
- c. Thermal energy being converted to sound energy

 <u>Answer</u> a wood stove thermal fan making sound.
- d. Gravitational potential energy being converted to motion energy

 <u>Answer</u> rolling down a hill on a skateboard.
- e. Electric energy being converted into electromagnetic energy

Answer - an L.E.D light bulb.