C	hapter 4: Energy page 15 Name					
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Frar	neworks Code)					
1. Т о	The law of conservation of energy implies that you usually obtain energy from some source, that is, some ther type of energy. To refresh your memory, list the six types of energy below.					
a	chemical electrical e. Nuclear					
b c.	mechanical e. Nuclear f. Hermal (heat)					
F	ill in the blank with the type of energy produced by the source given:					
a.	A battery changes chemical energy into electric energy.					
b.						
c.	A light bulb changes electrical energy into electromagnetic (thermal) energy.					
	An natural gas furnace changes chemical energy into heat (hemal) energy.					
e.	An electrical generator changes mechanical energy into electrical energy.					
f.	Rubbing your hands together changes mechanical energy into heat energy.					
g.	A solar cell changes electromagnetic energy into electrical energy.					
h.	An electric stove changes electrical energy into heat energy.					
i.	A gas lawn mower changes chemical energy into mechanical energy.					
j.	heat (Lemal) energy is produced when matter is changed into energy in an nuclear reaction.					
k.	Electromagnetic energy from the sun changes into energy when it strikes a surface. (Hint: what happens when you wear dark clothes on a sunny day?)					

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1. Fill	in the blank with the	source used to pro	oduce the given type	of energy:	. *
	An electrical mixer c	,	f		
b	An automobile engin	e changes	chemical	energy into mec	hanical energy.
	A battery changes	•			
. d	An natural gas furnac	ce changes	hemical.	energy into ther	mal energy.
e	A fluorescent light ch	nanges <u>C</u>	electrical	energy into electron	nagnetic energy.
f.	A battery charger charger charger	anges <u>ele</u>	Anical e	energy into chemical	energy.
g.	Your body changes _	<u>Chem</u>	i'calenergy	(food) into mechani	cal energy.
h.	A nuclear reactor cha	anges <u>Cha</u>	omical e	energy into thermal	energy.
i.	Car brakes change	nechan	energy i	nto thermal energy.	
j. Photosynthesis (food production) in green plants changes <u>electromagneh</u> energy <u>chemical</u> energy.					
k.	Pounding a nail chan	iges <u>mech</u>	cinital en	ergy into thermal en	ergy.
•			•		
2. Fill	in the blanks in the f	following energy t	ransformations (char	nges):	
a.	Sunlight isele	1 to may	Kenergy, which i	s changed by a tree of	during photosynthesis
	into hon	i al ene	ergy (the wood), which	ch is changed into	•
	_ thema	•	when the wood is b		
3. Fill	l in the blanks in the	following energy t	ransformation chain	s:	<i>,</i>
	chemical energy into	energ mechen n before, so the en	y by green plants, when the plants is a second control of the plants in the plants is a second control of th	hich are eaten by chi gy of running. The ru s	energy, due