Chapter 4: Energy	page 16	Name				
Worksheet: Energy		Period	Date			
(Frameworks Code)		·				
1. Fill in the blank with the source used to prod	luce the given type o	f energy:	• •			
a. An electrical mixer changes	e	_ energy into mechanical energy.				
b. An automobile engine changes		energy into mechanical energy.				
c. A battery changes	energy into	gy into <u>electrical</u> energy.				
d. An natural gas furnace changes		energy into thermal energy.				
e. A fluorescent light changes	e	_ energy into <u>electromagnetic</u> energy.				
f. A battery charger changes	en	energy into <u>chemical</u> energy.				
g. Your body changes	energy (f	nergy (food) into mechanical energy.				
h. A nuclear reactor changes	ene	ergy into <u>thermal</u> e	energy.			
i. Car brakes change	energy int	o <u>thermal</u> energy.				
 j. Photosynthesis (food production) in gree chemical energy. 	en plants changes	· · · · ·	energy into			
k. Pounding a nail changes	ener	gy into thermal en	ergy.			
2. Fill in the blanks in the following energy tra	nsformations (change	es):				
a. Sunlight is	energy, which is c	changed by a tree o	during photosynthesis			
into energ	nto energy (the wood), which is changed into					
energy w						
3. Fill in the blanks in the following energy tra						
	•		·			
a. Sunlight is	Sunlight is energy, which is changed into energy by green plants, which are eaten by children, who change the					
chemical energy into	energy	of running. The ru	nning moves air			
molecules faster than before, so the ener			•			
to the increased motion of molecules (th	ię body is also radiati	ing thermal energy	to the air).			

Cha	apter 4: Energy	page 15	Name	
Works	sheet: Energy		Period	Date
(Frame	eworks Code)			
	e law of conservation of energy impli er type of energy. To refresh your me			e source, that is, som
a.		d		
b.		e		
C	<u> </u>	f		
2. Fill	l in the blank with the type of energy	produced by the source	given:	
a.	A battery changes chemical energy is	nto	energy.	
Ъ.	An electric motor changes electrical	energy into		energy.
c.	A light bulb changes <u>electrical</u> energ	y into	energy	y.
d.	An natural gas furnace changes chen	nical energy into		energy.
e	e. An electrical generator changes mechanical energy into			energy.
f.	Rubbing your hands together change	s mechanical energy into	o	energy
g.	A solar cell changes electromagnetic	energy into		_energy.

energy is produced when matter is changed into energy in an nuclear

energy when it strikes

A gas lawn mower changes chemical energy into ____

k. Electromagnetic energy from the sun changes into

a surface. (Hint: what happens when you wear dark clothes on a sunny day?)

j.

reaction.