ame:			N.B. p	
napter <b>3 Study Guide</b>			Single/Science	
1.	Name & describe 6 types of energy:			
	Туре	Description		
2.	Name 6 types of	electromagnetic energy.		
	,,	<i>C C</i> ,		
3.	Why is nuclear e	nergy potentially dangerous?		
1	What is the sour	ce of nuclear energy?		
4.	what is the source	Le of fluctear effergy:		
5.	Describe the diffe	erence in potential & kinetic ener	gy.	
6	Kinetic energy is	directly proportional to	& .	
0.	= -		also increases. Or as	
		increases,		
_				
7.	Type	types of potential energy. Also, of Description	Increases with	
	Турс	Description	increases with	
_				
8.	Gravitational pot &	ential energy is directly proportion	onal to	

9.	Describe how you could increase elastic potential energy.
10.	The amount of chemical energy stored in a molecule is directly proportional to its
11.	Give 2 examples of how potential & kinetic energy transform as follows: PE→KE→PE
	KE→PE→KE
12.	The Law of Conservation of Energy states that energy cannot be or but from one form to another.
13.	True or False: The <b>TOTAL</b> amount of energy can never change between transformations.
14.	A measure of USABLE energy after a conversion is
15.	Give 2 examples of how energy may be converted into unwanted forms
16.	Why are LED lights efficient?
17.	List 3 alternatives to fossil fuels:
18.	Solar cells convert sunlight into energy.
19.	Why don't we use more solar energy?
20.	Why don't we use more windmills as a source of energy?

21.	Write a paragraph describing the path of sound as it travels through the ear. Underline all organ names in your explanation.
22.	Write the formula for kinetic energy.
23.	Write the formula for gravitational potential energy.
24.	Which would have greater gravitational potential energy?a 10 kg object sitting on a ledge 4 m from the grounda 10 kg object sitting on a ledge 6 m from the ground
25.	Which would have greater kinetic energy?a 100 pound person running 20 mpha 200 pound person running 20 mph
26.	Which would have greater gravitational potential energy?a 100 kg object sitting on a ledge 4 m from the grounda 10 kg object sitting on a ledge 4 m from the ground
27.	True or False: Sound can travel through empty space.