## Guided Reading Chapter 7 Section 2

1.	is a quantity that is related to the ability of an object to change or cause changes.									
2.	Name four changes that can occur in response to a change in energy.									
3.	A <i>joule</i> is a unit of measurement of energy. What does this really mean?									
4.	The correct unit for a joule is									
	a)	1 kg-m/s	b) 1 kg-m <sup>2</sup> /s <sup>2</sup>	c) 1 g-cm/s	d) 1 kg-cm <sup>2</sup> /s <sup>2</sup>					
5.	Me	Mechanical energy is the energy possessed by an object due to its or or								
6.	The	The type of energy that comes from electric charge is called								
	a)	chemical	b) electrical	c) mechanical	d) nuclear					
7.	The	The type of energy that is carried by electromagnetic waves is called								
	a)	chemical	b) electrical	c) mechanical	d) radiant					
8.	Match the correct form of energy with its definition.									
	Che Ela:	essure energy emical energy stic energy clear energy	a form of poter energy release	energy stored in the nuclei of atoms a form of potential energy stored in molecules energy released when an object changes shape a form of energy that is within gases and liquids						
9.	The	The flow of energy from the supports all life on Earth.								
10.	What does "doing work" mean when it comes to physics?									
11.	Pot	Potential energy depends on								
	a)	height	b) mass	c) weight	d) none of these					

	13.	ε	energy is ener	gy of motion.				
	14.	Kinetic energy de	pends on	and	J	·		
		a) height, speed		b) mass, spee	d	c) height, ma	SS	
	15.	Copy the equatio	n for calculat	ing kinetic ener	gy. Don't f	orget labels!		
	16.	Follow the path o diagram.	f the transfer	red energy that	t flows thro	ough the syste	em by comple	ting the
Chemical 6	energ	gy <b>→</b>			<b></b>		<b></b>	Electrical energy
	17.	Describe the tran comes down.	sfer of energ	y that occurs wh	nen a ball i	s thrown up ii	n the air and t	then caught when it
	18.	What is the "law	of conservati	on of energy?"				
	19.	Explain why a pov	wer plant doe	esn't make elect	ricity.			
	20.	Why is it incorrec	t to say "We	ran out of gas,"	when refe	erring to your	cars energy so	ource?

12. Copy the equation for calculating potential energy. Don't forget labels!