	Reg Nam	ents Chemistry: Review ne:	for Unit	t 2 Date:			
			to 263	K, the average kinetic energy of its molecules	ì		
		will a) Decrease b) Increase	c) l	Remain the same			
		The molecules of which a) He(g) at 0°C b) CO <sub>2</sub> (g) at 20°C	c)	nce have the highest average kinetic energy? HCl(g) at 40°C N <sub>2</sub> (g) at 60°C			
	3.		o water	at 0°C, the average kinetic energy of the			
		molecules a) Decreases b) Increases	<sub>5.</sub> C)	Remains the same			
	4.	As water vapor condental Decreases b) Increases	ses at 10	00°C, the potential energy of the molecules Remains the same			
	5.		st by a p	oure substance at its freezing point, its potent	а		
		energy a) Decreases b) Increases	c)	Remains the same			
	6.	When a substance was dissolved in water, the temperature of the water increased. This process is described as  a) Endothermic, with the release of energy  b) Endothermic, with the absorption of energy  c) Exothermic, with the release of energy  d) Exothermic, with the absorption of energy					
	7.	Which phase change is	endothe	ermic?			
		<ul><li>a) Gas → Solid</li><li>b) Gas → Liquid</li></ul>	-	Liquid → Solid Liquid → Gas			
ĸ	8.	In what type of reaction potential than the reaction a) Endothermic b) Exothermic	tants?	e products of the reaction always possess more Redox Spontaneous	'e		
	9.	What is the total numbers the temperature of 100 a) 420 b) 2100	per of jou O grams c) d)				
		=,					

10.	the a)	w many grams of water temperature of the water 10.0 g 20.0 g	er ch	absorb a total of 2520 joules of energy when nanges from 10.0°C to 30.0°C? 30.0 g 60.0 g			
11.		40 joules are added to 2 apperature of the water?	0 g:	rams of water at 30°C, what will be the final			
	a)	20°C 35°C		40°C 50°C			
12.	Wh a) b)	ich formula represents a NaCl(aq) NaCl(s)	c)	tture? H <sub>2</sub> O(I) - H <sub>2</sub> O(g)			
13. Which of the following substances <u>cannot</u> be decomposed by chemical change?							
		H <sub>2</sub> SO <sub>4</sub>	c)	H <sub>2</sub> O			
	b)	$NH_3$	d)	Ar			
14. Which is the formula of a compound?							
	a)	С		$N_2$			
	b)	Cl <sub>2</sub>	d)	HF			
15.	15. At a pressure of 1 atm, what is the temperature of a mixture of steam and water at equilibrium?						
	a) b)	100°C 212°C		273°C 373°C			
16. At 1 atm pressure, the difference between the freezing point and the boiling point of water, in degrees Kelvin, is							
	a)	100	c)	273			
	b)	180	d)	373			
17.		nich term represents a for heat		of energy? joule			
	•	degree		temperature			
<ul> <li>18. The heat of fusion of a compound is 126 joules per gram. What is the total number of joules of heat that must be absorbed by a 15.0 gram sample to change the compound from solid to liquid at its melting point?</li> <li>a) 63 joules</li> <li>b) 189 joules</li> <li>d) 1890 joules</li> </ul>							
19.	19. On a separate sheet of paper, draw a heating curve for a pure substance.  Label the melting point, the boiling point, and phase(s) present in each interval.  Describe what is happening to the kinetic energy in each interval and describe						

the potential energy at the phase changes.