General Chemistry 2 | 3rd Quarter

The Study of Phase Change: Self Evaluation

January 17 2021

Virtual Lab Link

✓) During phase change, average kinetic energy of the molecules of the substance	
	○ Increases ○ Decreases • Remains the same ○ Doubles	
✓) In the part of the transition curve where the temperature decreases,	
	 the kinetic energy decreases while the potential energy stays the same the potential energy decreases while the kinetic energy stays the same kinetic energy as well as potential energy changes None of these 	
✓) The amount of energy needed to melt 'm' gram of a solid substance to its liquid form is	
	 Q= mCdT, where C is the Specific heat capacity of the substance Q=mLf ,where Lf is the Latent heat of fusion of the substance Q=σA(T24-T14)Δt, where T1 and T2 are the temperatures of the body and the surroundings None of these 	
✓	Heat exchanges are generally governed by	
	Newton's law of cooling Stephan's law Planck's law Law of conservation of energy	
✓) The specific heat capacity of water is	
	○ 333KJ/KgK ○ 2.108 KJ/KgK ○ 670 KJ/KgK ● 4.187 KJ/KgK	