**Unit 5: Thermodynamics and Kinetics** 

Day 1: May 18/19	Day 2: May 20/23	Day 3: May 24/25	Day 4: May 27/28  ***Summative Quiz***
Objectives: SWBAT (HS4.3.3.G) predict the sign of ΔH for chemical changes (HS4.3.3.H) use Hess's law to calculate the energy for a reaction	Objective: SWBAT (HS4.3.3.D) explain that all systems tend toward disorder and lower energy	Objective: SWBAT (HS4.3.3.B) define specific heat (HS4.3.3.C) use the law of conservation of energy to solve calorimetry problems	Objective: SWBAT (HS4.3.3.B) define specific heat (HS4.3.3.C) use the law of conservation of energy to solve calorimetry problems
Agenda: Notes: Enthalpy and Hess's Law Hess's Law	Agenda: Order or Disorder Notes: Entropy, Enthalpy, and Gibb's Free Energy Entropy, Enthalpy, and Gibb's Free Energy	Agenda: Notes: Specific Heat Specific Heat Problems	Agenda: Summative Quiz Specific Heat Lab
Homework: Finish Hess's Law	Homework: HW1: Analyzing Free Energy	Homework: HW2: Enthalpy, Entropy, Free Energy Concept Map	Homework: HW3: Specific Heat in the Lab
Day 5: May 31/ June 1	Day 6: June 2/3	Day 7: June 6/7 End of Unit Assessment	Final Exam Review Day June 8/9
Objectives: SWBAT (HS4.3.3.E) define activation energy (HS4.3.3.F) analyze energy graphs for chemical reactions (HS4.5.4.2) describe the effects of	Objectives: SWBATsee all previous indicators	Objectives: SWBATsee all previous indicators	Final Exams: 1A/1B- Monday, June 13
surface area, temperature, and concentration on the frequency of	Agenda:	Agenda: DEADLINE FOR ALL WORK	2A/2B- Tuesday, June 14
molecular collisions.	Thermodynamics and Kinetics Study Guide	Thermodynamics and Kinetics Assessment	3A/3B- Wednesday, June 15
Agenda: Notes: Activation Energy Factors that Affect Reaction Rates lab Notes: Reaction Rates	Work on Final Exam Study Guide	Work on Final Exam Study Guide/Final Exam BCRs	4A/4B- Thursday, June 16
Reaction Rates	Homework:	Homework: Final Exam BCRs Due Next Class for a	
Homework: HW4: Analyzing Energy Diagrams	Thermodynamics and Kinetics Study Guide	20 point homework assignment (5 points each)	