



Honors Chemistry Equilibrium Unit 9

DATE	CLASSWORK	HOMEWORK
Fri 5/11	After Test: Collision Theory Pogil (pgs 1-4)	Video: Collision Theory and Rates of Reaction Video: Reaction Coordinate Diagram (potential energy diagrams)
Mon 5/14	TED ED: Reaction Rates CW: Collision Theory summary (pg5) CW: Potential Energy Diagrams (pg 6-8)	Video: LeChatelier's Principle
Tues 5/15	Quiz: Collision Theory & Potential Energy Diagrams Le Chatelier's Principle Pogil (pg 9-15) CW: Le Chatelier's Principle Practice (16-17)	Video: Equilibrium Expressions
Wed 5/16	No School	Equilibrium Expressions Video
Thurs 5/17	CW: Equilibrium Expressions Practice (18-19) Le Chatelier's Principle Lab	Test Review
Fri 5/18	Quiz: Equilibrium Expressions & Le Chatelier's Principle Activity	Test Review
Mon 5/21	Equilibrium Test	

Objectives: For the TEST you should be able to...

Students will be able to:

1. Understand qualitatively that reaction rate is proportional to number of effective collisions.
2. Explain potential energy diagrams.
3. Describe collision theory.
4. Explain how temperature, concentration, surface area and/or pressure affects the number of collisions.
5. Explain how a catalyst affects the activation energy, so that at a given temperature, more molecules will have energy equal to or greater than the activation energy.
6. Complete equilibrium expressions.
7. Calculate K and equilibrium concentrations.
8. Define chemical equilibrium for reversible reactions.
9. Distinguish between equal rates and equal concentrations.
10. Explain equilibrium expressions for a given reaction.
11. Evaluate equilibrium constants as a measure of the extent that the reaction proceeds to completion.
12. Determine the effects of stresses on systems at equilibrium (Le Chatelier's Principle).