

I'm not a bot































Answer keys for homework assignments are listed below. You should use answer keys as a tool, not to plagiarize. For you to be successful in this class you will need to do your own work and ask questions when you need clarification. Do not depend on answer keys to do your homework. The material from this chapter is needed before chapter 18 can start. This is material from the Chemistry 11 curriculum. 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Process Go to: ♦ 1. What is the rate of reaction? 2. What is the collision theory? 3. Fill out the table on how these factors can affect reaction rates: Variable How it affects the reaction rate? concentration temperature pressure Part 2: Equilibrium Go to: 1. What is equilibrium? 2. Why do reactions go towards equilibrium? 3. What is a reversible reaction? 4. Why must a container or system be closed for equilibrium to be established? 5. A chemical reaction is in equilibrium when the rates are and the concentration of the reactants and products are Part 3: Le Chatelier's Principle Watch the following video: Watch this video for extra information if you are struggling with the concept: 1. What does Le Chatelier's principle mean? 2. What is a stress on a chemical system? 3. If you add something (a reactant, product or heat/energy) will the reaction shift toward the side of the reaction to make even more of it, or will equilibrium shift in the direction to use it up? 4. If you remove a chemical or heat from a system, will the system shift toward the side that replaces what you took out or try to use even more of it? 5. Explain what happens when you increase pressure on a system that was at equilibrium? 6. Consider the following reversible reaction at equilibrium.The reaction is exothermic meaning it produces heat as a product. Predict which direction the reaction will shift after a change is made to the system. Stress Which direction will the reaction shift? increase concentration of reactants decrease concentration of products decrease concentration of water increase pressure decrease pressure decrease temperature or remove heat increase temperature or add heat Evaluation After you have finished the assignment complete the practice test at the end to evaluate your mastery: Consider the close read we did on maintaining blood-oxygen levels in the human body. After this lesson, answer the following question, How does your body maintain blood-oxygen levels at different altitudes? Describe how the reaction shifts according to Le Chatelier's principle citing evidence from the close read and this WebQuest assignment. Credits Teacher Page Students will receive a completion grade (70%) and a grade on correct answers (30%). This will be graded as a formal assessment and put into the grade books as a homework assignment.