

## Reversible Reactions and Chemical Equilibrium Worksheet

### Supporting questions

- 1) Can you draw the reversible arrow symbol?
- 2) What do you observe when you heat up hydrated copper sulfate?
- 3) Define the term *dynamic equilibrium*?
- 4) Why can dynamic equilibrium only occur in a closed system?
- 5) What are the 3 factors that alter the position of equilibrium?
- 6) What happens to the position of equilibrium if you add a catalyst?
- 7) For the chemical reaction below can you say what happens to the concentration of ammonia if you (a) Add in more hydrogen (b) increase the pressure (c) increase the temperature (the forward reaction is **exothermic**).



Nitrogen    Hydrogen            Ammonia

- 8) Why might a high temperature still be used?

Thanks for taking the time to complete these questions, you can check your answers on the next page.

# 18 2 Reversible Reactions And Equilibrium Worksheet Answers

**Jarvis, Gerry, Alberta Educational  
Communications Corporation**



## 18 2 Reversible Reactions And Equilibrium Worksheet Answers:

**Chemical Kinetics with Mathcad and Maple** Viktor Korobov, Valery Ochkov, 2011-05-26 The authors explain at length the principles of chemical kinetics and approaches to computerized calculations in modern software suites mathcad and maple Mathematics is crucial in determining correlations in chemical processes and requires various numerical approaches Often significant issues with mathematical formalizations of chemical problems arise and many kinetic problems can't be solved without computers Numerous problems encountered in solving kinetics calculations with detailed descriptions of the numerical tools are given Special attention is given to electrochemical reactions which fills a gap in existing texts not covering this topic in detail The material demonstrates how these suites provide quick and precise behavior predictions for a system over time for postulated mechanisms Examples i e oscillating and non isothermal reactions help explain the use of mathcad more efficiently Also included are the results of authors own research toward effective computations *Reversible Reactions and Dynamic Equilibrium : Utilization Guide* Jarvis, Gerry, Alberta Educational Communications Corporation, 1993

Chemical Reactions 2 : Equilibrium and Oxidation-reduction : CHE-5043-2 : Learning Guide Chunn, Barbara, Dumas, André, Céline Tremblay, Moisan, Mireille, Société de formation à distance des commissions scolaires du Québec, Morazain, Paule, De Fulviis, Claudia, 2001

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