

- A.  $\text{H}_2\text{O}(g) + 2\text{CO}(g) \rightarrow \text{heat} + 2\text{H}_2\text{O}(l)(g)$
- B.  $\text{H}_2\text{O}(g) + 2\text{H}_2\text{O}(g) \rightarrow 2\text{H}_2\text{O}(g) + \text{heat}$
- C.  $\text{CH}_4(g) + \text{H}_2\text{O}(g) \rightarrow \text{heat} + \text{CO}(g) + 2\text{H}_2\text{O}(g)$
- D.  $\text{C}_2\text{H}_2(g) + 4\text{H}_2\text{O}(g) \rightarrow \text{CH}_4(g) + 2\text{H}_2\text{O}(g) + \text{heat}$

26. Consider the following equilibrium system:  $\text{H}_2(g) + 2\text{H}_2\text{O}(g) \rightleftharpoons 2\text{H}_2\text{O}(g) + 92 \text{ kJ}$   
In order to maximize the yield for this reaction, the best conditions are:

- A. Low pressure and low temperature
- B. Low pressure and high temperature
- C. High temperature and low pressure
- D. High pressure and low temperature

27. Consider the following equilibrium:  $\text{CaCO}_3(s) \rightleftharpoons 556 \text{ kJ} \rightleftharpoons \text{CaO}(s) + \text{CO}_2(g)$   
The equilibrium will shift to the right:

- A.  $\text{CO}_2$  is added
- B.  $\text{CaCO}_3(s)$  is added
- C. The temperature is increased
- D. The temperature is decreased.

28. Explain the difference between Arrhenius acids and bases and Brønsted-Lowry acids and bases.

29. List three characteristics that acids and bases have in common.

30. To raise the pH of a solution, would you add HCl or NaOH? Why?

31. Describe and give an example of an electrolyte.

32. Find the percent composition of each element in  $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ .

33. Given the balanced equation:  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$ , how many grams of  $\text{H}_2\text{O}$  can be produced from 50g of  $\text{O}_2$ ?

34. Draw energy diagrams for the following:  
Reactants 50kJ Products 20kJ  
Products 30kJ Products 40kJ  
Activation energy 20kJ Activation energy 50kJ

35. Given the unbalanced equation below, what mass of sodium chloride can be produced from 23 g of Na and 35g of  $\text{Cl}_2$ ?



36. Explain the difference between saturated and unsaturated carbon compounds.

37. Identify the nuclear forces and explain each.

38. Explain how chemical reactions differ from nuclear reactions.

# Honors Chemistry Final Exams

**L Towner**



## Honors Chemistry Final Exams:

United States Air Force Academy United States Air Force Academy, Student-Centered Learning by Design Jacquelyn Whiting, 2021-03-15 Current research is pushing schools to adopt more student centered approaches to the classroom experience and educators librarians and classroom teachers alike are being challenged to revise their curricula and instruction to be student centered personalized and differentiated This book empowers librarians teachers and administrators to be empathic problem solvers and decision makers By reframing the challenges that members of a learning community face as opportunities to better meet teaching and learning needs readers will find that adoption of a mindset focused on users namely design thinking elevates and creates opportunities for innovating pedagogy Moreover it can enhance school culture as well as build channels of communication among various stakeholders in schools and districts When educators of any subject or discipline apply design thinking skills to their curriculum implementation authentic student centered learning experiences become the core of the learning experience The case studies shared in this book provide examples of student centered approaches being used in elementary middle and high schools so that readers have many models on which to base their work and from which to build confidence in shifting their pedagogy to keep the student at the center of teaching and learning decisions

**Teaching Innovation in University Education: Case Studies and Main Practices** Saura, Jose Ramon, 2022-06-17 In the last decade the development of new technologies has made innovation a fundamental pillar of education Teaching innovation includes the evolution of both teaching and learning models to drive improvements in educational methodologies Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the academic area Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data based methods Teaching Innovation in University Education Case Studies and Main Practices features the major practices and case studies of teaching innovation developed in recent years at universities It is a source on study cases focused on teaching innovation methodologies as well as on the identification of new technologies that will help the development of initiatives and practices focused on teaching innovation at higher education institutions Covering topics such as didactic strategics service learning and technology based gamification this premier reference source is an indispensable resource for pre service teachers lecturers students faculty administrators libraries entrepreneurs researchers and academicians

*Wales High School* J. Peters, 2020-03-13 It s the year 2003 Teenagers are messaging each other online listening to punk music on MP3 players and writing blogs on LiveJournal to fit in One such teen is walking the halls of Wales High School with bright shirts leather jackets and blue hair Jacques Peters He s determined to become best friends with one of the coolest guys in school Davis Mavis But he soon discovers that smoking skipping class and putting up a front aren t as cool as they seem particularly when mental health is

involved His friends gossip behind his back push him out of their clique and turn a blind eye to the cuts on his wrists He s dragged into a life that leads to a long stay in a psychiatric ward he hates full of therapy pills and a strict routine That troubled teen is me When I was discharged I was in a daze Numbered by medication and left with few friends I spent my days listening to music and giving my teachers lip Eventually on a cold winter night home alone I posted a single word on my blog goodbye I took a cocktail of pills and hoped to slip into an endless sleep     Annual Catalogue United States Air Force Academy,1985     **Catalogue of the Officers and Students of Columbia College, for the Year ...** Columbia College (New York, N.Y.),1915     *Catalogue of Columbia University* Columbia University,1916     **The International Cyclopaedia** ,1892     **The International Cyclopædia** ,1895     **The International Cyclopedia** Harry Thurston Peck,1898     **The American Universal Cyclopædia** ,1882     **Library of Universal Knowledge** ,1880     *Bold Ventures* S. Raizen,E.D. Britton,1996-12-31 This book presents comprehensive results from case studies of five innovations in science education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 3 of *Bold Ventures* pre sents the results from case studies of five innovations in mathematics education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least one if not all of the science innovations discussed in this volume for example Project 206l and probably with their general substance Much of the education community s familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects them selves Each of the five studies was a large scale effort involving teams of researchers over three years These teams analyzed many documents attended numerous critical project meetings visited multiple sites conducted dozens of individual interviews The team leaders Atkin Huberman Rowe having spent much time with science education over long careers looked at these innovations through many lenses It was a daunting task for each team to sift through the mountains of detail in order to bring the most compelling themes to the surface     Obsessed Allison Britz,2017-09-19 A brave teen recounts her debilitating struggle with obsessive compulsive disorder and brings readers through every painful step as she finds her way to the other side in this powerful and inspiring memoir Until sophomore year of high school fifteen year old Allison Britz lived a comfortable life in an idyllic town She was a dedicated student with tons of extracurricular activities friends and loving parents at home But after awakening from a vivid nightmare in which she was diagnosed with brain cancer she was convinced the dream had been a warning Allison believed that she must do something to stop the cancer in her dream from becoming a reality It started with avoiding sidewalk cracks and quickly grew to counting steps as loudly as possible Over the following weeks her brain listed more dangers and fixes She had to avoid hair dryers calculators cell phones computers anything green bananas oatmeal and most of her own clothing Unable to act normal

the once popular Allison became an outcast Her parents questioned her behavior leading to explosive fights When notebook paper pencils and most schoolbooks were declared dangerous to her health her GPA imploded along with her plans for the future Finally she allowed herself to ask for help and was diagnosed with obsessive compulsive disorder This brave memoir tracks Allison s descent and ultimately hopeful climb out of the depths Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy,2004

**Labor and Health Economics in the Mediterranean Region: Migration and Mobility of Medical Doctors** Driouchi, Ahmed,2013-11-30

The increasing demand for health care and advances in healthcare technologies has exacerbated the present shortage of health personnel In response to these changes physicians may choose to offer their services elsewhere Labor and Health Economics in the Mediterranean Region Migration and Mobility of Medical Doctors addresses the mobility of physicians in the Mediterranean region within a global context focusing on the role mobility has played in the global health system in both developed and developing economies Besides universities and researchers public and private medical practitioners and agencies can make use of this book to further their knowledge of the changing healthcare industry **Report of the**

**Examination Department** University of the State of New York. Examination Department,1896 *Chambers's*

*Encyclopaedia* ,1887 **The Catalog** Whitman College,1917 A Personal Odyssey Thomas Sowell,2002-02-05 This is the gritty story of one man s lifelong education in the school of hard knocks as his journey took him from Harlem to the Marines the Ivy League and a career as a controversial writer teacher and economist in government and private industry It is also the story of the dramatically changing times in which this personal odyssey took place

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