

Chemistry Benchmark II Study Guide

1. Write the formula for the following:
 - iron (II) oxide
 - calcium phosphate
 - ammonium phosphate
 - copper (III) bromide
 - nitrogen dioxide
 - titantium (IV) oxide
 - potassium bromide
 - magnesium hydroxide
 - xenon hexafluoride
2. What is a binary compound? What is a ternary compound?
3. Write formulas for:
 - hydroiodic acid
 - carbonic acid
 - hydrosulfuric acid
 - hydrochloric acid
 - hypochlorous acid
 - perchloric acid
 - phosphorous acid
 - chloric acid
 - sulfuric acid
 - chlorous acid
4. Name these:
 - NaCl
 - KI
 - CaBr
 - Rb₂O
 - Sr₂
 - CuCl
 - HgO
 - Fe₂O₃
 - MnO₂
 - PbCl₄
 - SnBr₄
 - BF₃
 - NO
 - N₂O₅
 - CCl₄
 - P₂O₅
 - N₂O₃
5. Find the oxidation number assigned to:
 - S in H₂SO₄
 - P in PCl₅
 - S in SO₃
6. Name these:
 - NO₂
 - N₂O
 - SO₃
7. How many valence electrons do elements have in the following groups?
 - alkali metals
 - alkaline earth metals
 - halogens
 - noble gases
8. Write the complete electron configuration, noble gas configuration, Lewis dot structure, and orbital notation for:
 - Sr
 - Br
 - Na
 - K
 - N
 - Cl
9. In each group, identify the atom with the largest atomic radius.
 - Sn, Xe, Rb, Sr
 - IRn, He, Xe, Kr
 - Pb, Ba, Cs, At
10. In each group, identify the atom with the highest ionization energy.
 - Cs, K, Li
 - Ba, Sr, Ca
 - I, Br, Cl
 - Mg, Si, S
11. Define the following: ionic bond, covalent bond, polar covalent bond, nonpolar covalent bond.
12. Define electronegativity and describe the trend across a period and down a group. What type of element has the highest electronegativity? What type has the lowest electronegativity?
13. Identify the type of bond in each:
 - K-N
 - Cs-O
 - C-N
 - O-F
 - Na-Cl
 - Cl-F
 - Cl-O
 - Ca-Cl
14. Who first arranged the periodic table in order of increasing atomic mass?
15. Draw Lewis structures for the following and predict the molecular shape.
 - H₂S
 - PH₃
 - O₂
 - sulfate ion
 - SO₃
 - BF₃
16. Calculate the wavelength and energy of 96.6MHz radio waves.
17. What is the frequency and energy of electromagnetic radiation having a wavelength of 3.33×10^{-9} m?
18. Predict the ions that the following elements might form:
 - F
 - K
 - I
 - Ge
 - Fe (trick question)
 - P
 - Ag

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Project 2: The Talk Show. Objectives: • To understand the dynamics of a television interview or “talk” show. • To prepare for the questions that may be ... Humorously Speaking Learn how to begin a speech with a humorous story to get listeners' attention, end a speech with a humorous story, use humorous stories and anecdotes throughout ... Toastmasters Funniest Humorous Speech [VIDEO] What is your funniest humorous speech? Ever do one about being a Toastmaster? CLICK PLAY, here is mine! Enjoy the laughs! The confident student Summary: Tackle all of your college courses with confidence! Print Book, English, 2014. Edition: 8th edition View all formats and editions. Publisher ... The Confident Student (Textbook-specific CSFI) This practical and accessible text features self-discovery, self-assessment and confidence-building activities to keep students motivated and help them develop ... The Confident Student 8th Edition by: Carol C. Kanar This practical and accessible text features self-discovery, self-assessment and confidence-building activities to keep students motivated and help them develop ... The confident student : Kanar, Carol C : Free Download ... Nov 29, 2010 — The confident student ; Publication date: 2001 ; Topics: Study skills, Time management, Critical thinking, Confidence, College student orientation. The Confident Student - Carol C. Kanar The Eighth Edition delivers more explicit critical-thinking instruction in every chapter. New Thinking with Bloom activities encourage active reading and ... The Confident Student 8th edition 9781285625812 The Confident Student 8th Edition is written by Carol C. Kanar and published by Cengage Learning. The Digital and eTextbook ISBNs for The Confident Student ... The Confident Student, 8th Edition - 9781133316473 This practical and accessible text features self-discovery, self-assessment and confidence-building activities to keep students motivated and help them develop ... Confident Student 8th Edition - nqmama.net Get Instant Access to PDF Read Books Confident Student 8th Edition at our eBook Document Library 1/4 Confident Student 8th Edition Confident Student 8th Edition The Confident Student, 8th Edition: Carol C. Kanar Dec 4, 2012 — This practical and accessible text features self-discovery, self-assessment and confidence-building activities to keep students motivated and ... The Confident Student - Carol C. Kanar Jan 1, 2013 — The Eighth Edition delivers more explicit critical-thinking instruction in every chapter. New Thinking with Bloom activities encourage active ...