

Chemistry Benchmark II Study Guide

- Write the formula for the following:
 - Iron (II) oxide
 - calcium phosphate
 - potassium bromide
 - ammonium phosphate
 - copper (II) bromide
 - magnesium hydroxide
 - nitrogen dioxide
 - titanium (IV) oxide
 - xenon hexafluoride
- What is a binary compound? What is a ternary compound?
- Write formulas for
 - hydroiodic acid
 - carbonic acid
 - phosphorous acid
 - sulfuric acid
 - hydrosulfuric acid
 - hydrochloric acid
 - chloric acid
 - chlorous acid
 - hypochlorous acid
 - perchloric acid
- Name these:
 - NaCl
 - KI
 - CsBr
 - Rb₂O
 - SrI₂
 - CuCl
 - HgO
 - Fe₂O₃
 - MnO₂
 - PbCl₄
 - CuI
 - SnBr₄
 - BF₃
 - NO
 - N₂O₅
 - CCl₄
 - P₂O₅
 - N₂O₃
- Find the oxidation number assigned to:
 - S in H₂SO₄
 - P in PCl₅
 - S in SO₃
- Name these.
 - NO₂
 - N₂O
 - SO₃
- How many valence electrons do elements have in the following groups?
 - alkali metals
 - alkaline earth metals
 - halogens
 - noble gases
- Write the complete electron configuration, noble gas configuration, Lewis dot structure, and orbital notation for:
 - Sr
 - Br
 - Na
 - K
 - N
 - Cl
- In each group, identify the atom with the largest atomic radius.
 - Sn, Xe, Rb, Sr
 - Rn, He, Xe, Kr
 - Pb, Ba, Cs, At
- In each group, identify the atom with the highest ionization energy.
 - Cs, K, Li
 - Ba, Sr, Ca
 - I, Br, Cl
 - Mg, Si, S
- Define the following: ionic bond, covalent bond, polar covalent bond, nonpolar covalent bond
- 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?
- Identify the type of bond in each:
 - K-N
 - Cs-O
 - C-N
 - O-F
 - Na-Cl
 - Cl-F
 - Cl-O
 - Ca-Cl
- Who first arranged the periodic table in order of increasing atomic mass?
- Draw Lewis structures for the following and predict the molecular shape.
 - H₂S
 - PH₃
 - O₂
 - sulfate ion
 - SO₂
 - BF₃
- Calculate the wavelength and energy of 96.6MHz radio waves.
- What is the frequency and energy of electromagnetic radiation having a wavelength of $3.33 \times 10^{-6}\text{m}$?
- Predict the ions that the following elements might form:
 - F
 - K
 - I
 - Ga
 - Fe (trick question)
 - P
 - Ag

Chemistry Benchmark Study Guide

Nader Rifai



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