Study Guide for Honors Chemistry Final - June 2015

You will be given all needed equations, values of constants and other pertinent information, including the following: periodic table, $c = \lambda v$, E=hv, the value for $h = 6.626 \times 10^{-34}$ J s, the conversion between meters and nanometers (1 m = 1 x 10° nm), electronegativity values, activity series of metals, gas law equations, dilution equation, molarity, molality. It is your responsibility to recognize the equations and understand how to use them. You will also be given a 3" x 5" notecard that, must be handwritten by yourself, you may use to organize your thoughts for the exam.

Do the sample problems and review all the vocabulary words in the sections indicated. Go to the following links to test your knowledge on the Chapters (remember we did not do all of the sections in all of the following chapters):

http://chemistrymc.com/chapter_test_and http://chemistrymc.com/standardized_test_

Electrons in Atoms – Chapter 5 Objectives:

- Describe the relationship between wavelength and frequency.
- Be able to use the equation c = λν where c = 3.00x10⁸ m/s
- Describe the relationship between frequency and energy of a wave.
- Be able to use the equation E = hv where h = Planck's constant = 6.626x10⁻³⁴ Js
- Describe the contributions of Bohr, Schrödinger, Planck, Einstein, & deBroglie to determining the location of electrons in the atom and their properties
- Explain the difference between a continuous spectrum and a line spectrum and give examples of each.
- Be able to arrange the colors of the visible spectrum from lowest energy to highest energy.
- Define a quantum of energy and explain how it is related to an energy change of matter.
- Describe how the quantum mechanical model describes what an atom is and where the subatomic particles are located.
- Explain the relationships among an atom's energy level, sublevels, and atomic orbitals.
- Apply the Pauli Exclusion Principle, the Aufbau Principle, and Hund's Rule to write electron
 configurations using orbital diagrams and electron configuration notation.
- Define valence electrons and draw electron-dot structures representing an atom's valence electrons.
- Be able to read and write quantum numbers given an electron configuration or an element's symbol
- Labs Thickness of Zinc, Spectroscopy and Flame Tests, Electron Arrangements

Vocabulary:

- Wavelength, frequency, amplitude and speed of waves
- Electromagnetic spectrum
- Owamtum
- Photoelectric effect
- Atomic emission spectrum
- · Ground state vs. excited state
- Heisenberg uncertainty principle
- Ouantum mechanical model of the atom
- Atomic orbital
- Principal quantum number

- Principal energy level
- Orbitals (s, p, d, and f)
- Electron configuration
- Valence electron
- Electron-dot structures (Lewis dot diagrams)
- Quantum numbers
- m, \(\ell_{\pi} \) m/, m/.

Honors Chemistry Final Study Guide

Daniela Niemeyer

Honors Chemistry Final Study Guide:

The Top Books of the Year Honors Chemistry Final Study Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Honors Chemistry Final Study Guide: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Honors Chemistry Final Study Guide: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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