

PRE-AP CHEMISTRY: Semester 2 Final Review

Final: June 8 (period 7); June 9 (period 6)

Review days after school: Monday June 1, Wednesday June 3, Thursday June 4

*You have come a long way this year! You should celebrate your successes and continue to work hard until the end. Let me know how I can help you!

**You can also use a periodic table and your reference sheets from the semester.

***Your binder contains your work from the whole semester (maybe even the whole year!) You can study from your semester's old worksheets, practice problems within the chapters, labs, quizzes, or tests, or look in my folders for extra worksheets/practice.

I. SEMESTER 1:

- a. Significant figures; rules for measuring, rounding, etc.
 - i. Why do we need them?
 - ii. How can you tell how many sig figs are in a measurement?
- b. Scientific notation, converting metric units
 - i. $5.64 \times 10^3 =$ _____
 - ii. $0.000374 =$ _____
 - iii. $5000 \text{ grams} =$ _____ kg
 - iv. $0.345 \text{ L} =$ _____ mL
- c. Physical/chemical changes (in Ch. 9 again)
- d. Structure of an atom; numbers of protons, neutrons, electrons
 - i. What are isotopes?
 - ii. How do you identify the number of protons, neutrons, and electrons in an atom?
- e. Electron configurations
 - i. Use the Aufbau principle to write e^- configs for any element on P-table
 - ii. Know electron configurations for **ions**: what has changed? Why do atoms become ions?
- f. Arrangement of periodic table
 - i. Names of specific groups on table: halogens, alkali metals, noble gases, metals, nonmetals

II. UNIT 5 IONIC BONDING (Chapter 4/12)

- i. How do positive ions form? Negative ions?
- ii. What is the octet rule? How does ionic bonding happen?
- iii. Naming and writing formulas, including those with transition metals
 1. $\text{MgCl}_2 =$ _____
 2. $\text{KF} =$ _____
 3. Iron (III) oxide = _____
- iv. Common polyatomic ions
 1. $\text{Na}_2\text{CO}_3 =$ _____
 2. Aluminum hydroxide = _____

III. UNIT 5: COVALENT BONDING

- a. What is the octet rule? How does covalent bonding happen?
- b. Single, double, triple bonds + valence electrons
- c. Naming and writing formulas (system of prefixes)
- d. VSEPR: predicting shapes of molecules
- e. Polar/nonpolar: what is it, how do you know?
 - i. Draw Lewis structures for the following molecules and identify the shape and polarity:
 1. H_2O
 2. NH_3
 3. CH_4
 4. SF_6
 5. SO_4^{2-}

IV. UNIT 6/7: CHEMICAL REACTIONS

- a. What is a chemical reaction?

Pre Ap Chemistry Spring Final Review

Yicheng Fang



Pre Ap Chemistry Spring Final Review:

Resources in education ,1991 **LBL Research Review** ,1985 *Current Practices in Quantitative Literacy* Rick Gillman,2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry Acid Precipitation ,1989 *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants,1969 *Selected Water Resources Abstracts* ,1988-12 **EPA Publications**

Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1994-07 **Farmers' Review** ,1890 **Research Awards Index** ,1989 Biomedical Index to PHS-supported Research ,1989 **UCSF General Catalog** University of California, San Francisco,1972 **The Big Book of Home Learning Volume 1 Getting Started** Mary Pride,2000-09 Chemical News and Journal of Industrial Science ,1890 **The Emergence of Organizations and Markets** John F. Padgett,Walter W. Powell,2012-10-14 The social sciences have sophisticated models of choice and equilibrium but little understanding of the emergence of novelty Where do new alternatives new organizational forms and new types of people come from Combining biochemical insights about the origin of life with innovative and historically oriented social network analyses John Padgett and Walter Powell develop a theory about the emergence of organizational market and biographical novelty from the coevolution of multiple social networks In the short run they argue actors make relations but in the long run they argue actors make actors Organizational novelty arises from spillover across intertwined networks which tips reproducing biographical and production flows This theory is developed through formal deductive modeling and through a wide range of careful and original historical case studies ranging from early capitalism and state formation to the transformation of communism to the emergence of contemporary biotechnology and Silicon Vally from back cover **Catalogs of Courses** University of California, Berkeley,1992 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 University Bulletin University of California, Berkeley,1967 **Technical Abstract Bulletin** ,1982 The Chemical News and Journal of Physical Science ,1890 **Princeton Alumni Weekly** ,1926

NBS Special Publication ,1968

Pre Ap Chemistry Spring Final Review: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year.

Pre Ap Chemistry Spring Final Review : Colleen Hoover's "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 skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Pre Ap Chemistry Spring Final Review : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Pre Ap Chemistry Spring Final Review : 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, captivating 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 quiet 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 an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://letsgetcooking.org.uk/book/scholarship/fetch.php/social%20studies%20final%20exam%202013%20answer.pdf>

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