

Chemistry 2nd Semester Final Review **KEY**

This is meant as a guide. It does NOT contain every single thing you need to know for the final exam. Review notes, benchmark review sheets, homeworks, chapter study guides, etc.

Bring your book to school by Monday for turn in (seniors should bring book to bookstore by themselves ASAP)

Gas Laws (Ch. 13):

Subtopics: atmospheric pressure, Dalton's law of partial pressures, combined gas law, Ideal gas law, gas stoichiometry (22.4 L/mol for a gas at STP)

Practice questions:

1. If a gas occupies 3.8 L at a pressure of 2.71 atm, what would the pressure be if the volume changes to 1.47 L? (Temp. and amt. of gas constant)
 $V_1 = 3.8 \text{ L}; P_1 = 2.71 \text{ atm}$
 $V_2 = 1.47 \text{ L}; P_2 = ? \text{ Atm}$
Since all units are standard (L, atm), we do not need to convert the units before proceeding.
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$
T goes away (not mentioned in problem)
 $P_1 V_1 = P_2 V_2$
Isolate for P_2 : $P_2 = (P_1 V_1)/V_2$
 $P_2 = (2.71 \text{ atm} \times 3.8 \text{ L})/(1.47 \text{ L}) = 7.0 \text{ atm}$ (L cancelled and it's 2 sig figs)
2. A gas has a volume of 1.49 L at a temperature of 34.75 degrees Celsius. What would the volume be at 78.41 degrees Celsius? (pressure & amt. of gas constant)
 $V_1 = 1.49 \text{ L}, T_1 = 34.75 \text{ degrees Celsius}$
 $V_2 = ? \text{ L}, T_2 = 78.41 \text{ degrees Celsius}$
We need to convert from Celsius to Kelvins before proceeding.
 $T_1 = 34.75 + 273 = 307.75 \text{ K}$
 $T_2 = 78.41 + 273 = 351.41 \text{ K}$
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$
Get rid of P
 $V_1/T_1 = V_2/T_2$
Isolate V_2 : $V_2 = (V_1/T_1)T_2$
 $V_2 = (1.49 \text{ L}/307.75 \text{ K})(351.41 \text{ K}) = 1.70 \text{ L}$
3. What volume is occupied by 8.47 g of hydrogen gas at 84.7 degrees Celsius and 1.04 atm?
The combined gas law won't work here. You only have one condition and nothing changes.
 $PV = nRT$ will work. (n = moles and R = 0.08206 L atm/K mol)
 $P = 1.04 \text{ atm}, V = ? \text{ L}, n = \text{OOPS we need to convert from grams to moles!}, T = 84.7 \text{ degrees Celsius} + 273 = 357.7 \text{ K}$
 n : Hydrogen gas is diatomic!
 $8.47 \text{ g H}_2 \times (1 \text{ mol H}_2 / 2.02 \text{ g H}_2) = 4.193069307 \text{ mol H}_2$
Isolate V : $V = (nRT)/P = (4.193069307 \text{ mol H}_2 \times 0.08206 \text{ L atm/K mol} \times 357.7 \text{ K}) / 1.04 \text{ atm} = 118 \text{ L}$
4. What volume is occupied by 56.75 g of oxygen gas at STP?

2nd Semester Chemistry Final Exam Review Answers

E Durkheim



2nd Semester Chemistry Final Exam Review Answers:

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky Andrew M. Olney, Irene-Angelica Chounta, Zitao Liu, Olga C. Santos, Ig Ibert Bittencourt, 2024-07-01 This volume constitutes poster papers and late breaking results presented during the 25th International Conference on Artificial Intelligence in Education AIED 2024 which took place in Recife Brazil during July 8 12 2024 The 18 full papers and 92 short papers were carefully reviewed and selected from 200 submissions They are organized in topical sections as follows Part One Blue Sky Industry Innovation and Practitioner Wide AIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials

Nursing School Entrance Exam Review William H. Brown, Frederick A. Bettelheim, Jerry March, 2004-04

Listening to Our Students and Transcending K-12 to Save Our Nation Alec Ostrom, Brian Hack, Don Prentice, 2020-01-06 This journey will engage you in dealing with some hard truths and it will take you down a new pathway and new ways of thinking about K 12 education We now live in a nation that is struggling with deep social economic and political conflicts We are all doing our best to resolve these conflicts and to solve the critical challenges that we all face in the Digital Age but our children and young adults are having a very difficult time in dealing with the realities of their young lives We wrote this book because we want to engage all of our readers in each local community in frank honest down to earth practical conversations about our K 12 schools as the foundation for our constitutional democracy Without well educated citizens our government our economy and our society will not survive And this is true regardless of the political beliefs of our readers across the political spectrum

Midland Druggist and the Pharmaceutical Review, 1911 **The Midland Druggist and Pharmaceutical Review**, 1911

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The Chemistry Classroom James Dudley Herron, 1996 Aimed at chemists who teach at the high school and introductory college level this valuable resource provides the reader with a wealth of knowledge and insight into Dr Herron s experiences in teaching and learning chemistry Using specific examples from chemistry to illustrate principles of learning the volume applies cognitive science to teaching chemistry and explores such topics as how individuals learn teaching problem solving concept learning language roles and task involvement Includes learning exercises to help educators decide how they should teach

2nd Semester Chemistry Final Exam Review Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year.

2nd Semester Chemistry Final Exam Review Answers : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

2nd Semester Chemistry Final Exam Review Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding 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.

2nd Semester Chemistry Final Exam Review Answers : 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 crafts 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 compelling 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 cautionary tale about the dangers of obsession and the power of evil.

https://new.webyeshiva.org/files/publication/index.jsp/Blue_Lines_The_Assassins_Series.pdf

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









































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