

Chemistry 338 2nd Semester Final Exam Review Sheet

District Assessment

Element	Symbol	Atomic #	Protons	Neutrons	Electrons	Mass #	Charge
Tungsten	¹⁸⁴ W ⁺² 74	74	74	110	72	184	+2

- Name the compound
 - Fe₂O₃ – iron (III) oxide
 - Cl₂O₈ – dichlorine octaoxide
- Write the formula
 - Trisulfur Dinitride - S₃N₂
 - Zinc Hydroxide – Zn(OH)₂
 - Tin (IV) oxide - SnO₂
- The pressure of a gas is 843 mm Hg at 24°C. What will the pressure be at standard temperature? Volume is constant.

$$\frac{P_1}{T_1} = \frac{P_2}{T_2} \quad \frac{843\text{mmHg}}{297\text{K}} = \frac{P_2}{273\text{K}} \quad P_2 = 775 \text{ mm Hg}$$
- The volume of a gas is 81.7 mL when the pressure is 119 kPa and the temperature is 73°C. What is the volume at STP?

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2} \quad \frac{(119\text{kPa})(81.7\text{mL})}{346\text{K}} = \frac{(101.3\text{kPa})(V_2)}{273\text{K}} \quad V_2 = 75.7 \text{ mL}$$
- Between Be and Ba, which has a larger ionization energy? Larger atomic radius?

Larger ionization energy – Be
Larger atomic radius - Ba
- Balance the equation & classify the type of reaction:

$$2\text{Al} + 3 \text{CuSO}_4 \rightarrow 1\text{Al}_2(\text{SO}_4)_3 + 3 \text{Cu} \quad \text{single replacement}$$
- Predict the products & classify the type of reaction:

$$\text{H}_3\text{PO}_4 + 3 \text{NaOH} \rightarrow 3 \text{H}_2\text{O} + \text{Na}_3\text{PO}_4 \quad \text{double replacement}$$
- Calculate the Molar Mass: (NH₄)₂CO₃
96 g/mole
- Convert 2.75 moles of N₂O₅ to molecules

$$\frac{2.75\text{moles}}{1} \times \frac{6.02 \times 10^{23}\text{molecules}}{1\text{mole}} = 1.66 \times 10^{24} \text{ molecules N}_2\text{O}_5$$

Solutions

Chemistry Spring Semester Final Exam Review Sheet

Christian G. Meyer



Chemistry Spring Semester Final Exam Review Sheet:

The Top Books of the Year Chemistry Spring Semester Final Exam Review Sheet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Chemistry Spring Semester Final Exam Review Sheet : 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 prevail. Chemistry Spring Semester Final Exam Review Sheet : 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. Chemistry Spring Semester Final Exam Review Sheet : Delia Owens' "Where the Crawdads Sing" This mesmerizing 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, entrancing readers with its evocative prose and mesmerizing setting. These top-selling 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 Papan, 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 a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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