

You must show all your calculation set-ups to receive full credit. You must report all answers to the correct # of significant figures (sig. figs.).

1. Who used a cathode ray tube in his/her discovery of the electron?

- ☒ a. Robert Millikan
☐ b. Ernest Rutherford
☐ c. John Dalton
☒ d. J.J. Thomson

82
100

2. How many significant figures are in each of the following measurements?

- a. 0.0017 g 2 sig figs
 b. 1390 mL 3 sig figs
 c. 4.030 km 4 sig figs
 d. 200110 kg 5 sig figs

3. Which unit represents a microgram?

- ☒ a. mg
☒ b. μ g
☐ c. ng
☐ d. cg

4. The most unreactive group in the Periodic Table is/are the

- ☒ a. alkaline-earth metals
☐ b. metalloids
☐ c. halogens
☒ d. noble gases

5. The empirical formula of a compound of carbon and hydrogen is CH_2 . The molar mass is 28.06 g/mol. What is the molecular formula?

- ☒ a. C_2H_4
☐ b. C_3H_6
☐ c. C_4H_8
☐ d. C_5H_{10}

C: 12.01
 H: 1.01

$$28.06 = n(14.03)$$

$$n = 2$$

$$\frac{C \ 12.01}{H \ 2(1.01)}$$

$$14.03$$

6. Label each of the following elements as metal, nonmetal, or metalloid.

- a. chlorine nonmetal
 b. beryllium metal
 c. silicon metalloid
 d. boron metalloid

7. Write both the name and the symbol of the element in group 13 (3A) and period 3.

Aluminum (Al)

8. Calculate the percentage composition by mass (mass percent) of just the hydrogen in C_3H_8 .

$$\text{C}_3\text{H}_8 \rightarrow \text{total: } 44.11$$

$$C: 3(12.01) = 36.03 / 44.11 = 82\%$$

$$H: 8(1.01) = 8.08 / 44.11 = 18\%$$

Michigan Standardized College Chemistry Exam

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Education**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the University of North Dakota text.

Michigan Standardized College Chemistry Exam:

Michigan Standardized College Chemistry Exam: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Michigan Standardized College Chemistry Exam : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped 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. Uncover the Best : Taylor Jenkins Reids "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. 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves 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 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 a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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