

Unit 3 Review - Atomic Structure & Periodic Table

Part 1: Answer the following questions.

1. a. Which scientist created the first modern atomic theory? John Dalton
 b. What was his theory?
 1. All matter is made of extremely small particles called atoms
 2. All atoms of a given element are identical and atoms of a specific element are different from any other element
 3. Atoms cannot be created, divided into smaller particles or destroyed
 4. Different atoms combine in simple whole number ratios to form compounds
 5. In a chemical reaction, atoms are separated, combined or rearranged.
- c. What was his model of the atom called? Billiard Ball
- d. What was proven wrong and why?
 1. All atoms of a given element are identical – wrong b/c of the existence of isotopes
 2. Atoms cannot be divided into smaller particles – wrong b/c of the existence of electrons, protons and neutrons
2. a. Which scientist did the gold foil experiment? Rutherford
 b. What did he conclude from the gold foil experiment?
 1. Atoms are made up of mostly empty space
 2. Atoms have a small positive center call the nucleus
3. a. Who discovered the electron? J. J. Thomson
 b. What was the name of his experiment? Cathode Ray Tube Experiment
 c. What was his model of the atom called? Plum Pudding Model
4. What did Mendeleev do?
Arranged the periodic table in order of increasing atomic mass
5. a. Who arranged the **modern** periodic table? Moseley
 b. How is the modern periodic table arranged? Arranged in order of Atomic Number
6. a. What are the three subatomic particles? Give the symbols, charge, mass and location of each.

Particles	Symbol	Charge	Mass	Location
Proton	p^+	Positive	1 amu	Nucleus
Neutron	n^0	Neutral	1 amu	Nucleus
Electron	e^-	Negative	1/2000 amu	Electron Cloud

7. What is special about the proton? **The proton IDENTIFIES THE ELEMENT**
8. Fill in the blanks in the following:
 - a. Mass # = $p^+ + n^0$
 - b. Atomic # = # of protons
9. What is the difference between Average Atomic mass and mass #? (Average) Atomic Mass is found on the periodic table and is the weighted average of the isotopes. The Mass Number is the mass of one element and must be given or calculated by adding the protons and neutron of that element.
10. Which of the following are isotopes of the same element? How do you know? A, and D. They have the same Atomic Number (# of Protons)
 - a. $^{12}_{5}\text{X}$
 - b. $^{15}_{5}\text{X}$
 - c. $^{12}_{6}\text{X}$
 - d. $^{15}_{5}\text{X}$
11. Calculate the average atomic mass for Boron if it has two naturally occurring isotopes: boron -10 (abundance of 19.8%) and boron - 11 (abundance of 80.2%).

$$\{ 10 \times \frac{19.8}{100} \} + \{ 11 \times \frac{80.2}{100} \} = 10.802 \text{ amu}$$
12. Identify an element "X" by calculating the average atomic mass. X = 6 (abundance of 7.5%) and X= 7 (abundance 92.5%).

$$\{ 6 \times \frac{7.5}{100} \} + \{ 7 \times \frac{92.5}{100} \} = 6.925 \text{ amu} \quad \text{Which is Lithium}$$

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Guide Nuclear Chemistry Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt 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. Uncover the Best : 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 compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Guide Nuclear Chemistry Answers : Delia Owens "Where the Crawdads Sing" This captivating 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 engaging 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 exceptional and thrilling 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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