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 rations 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	Electon 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. $^{12}_{5}X$ b. $^{15}_{7}X$ c. $^{12}_{6}X$ d. $^{15}_{5}X$

    A. and D. They have the same Atomic Number (# of Protons)

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%).

    $\{10 \times \frac{19.8}{100}\} + \{11 \times \frac{80.2}{100}\} = 10.802$ amu

12. Identify an element "X" by calculating the average atomic mass. X - 6 (abundance of 7.5%) and X- 7 (abundance 92.5%).

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

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The Chemical News and Journal of Physical Science ,1911 **Resources in Education** ,1998 **Research in Education** ,1973 Model Test Papers For ICSE Physics - Class X (Term 2) Mohit Tripathi,2022-08-03 ICSE Model Test Papers For Class 10 Physics by EduGorilla comes with Handcrafted by our most eminent faculty Covers all the term 2 topics Topic wise practice questions Summary for a quick revision 3 solved 7 unsolved question papers **CliffsNotes Praxis II: Middle School Science (0439)** Glen Moulton,2013-05-21 Your complete guide to a higher score on Praxis II Middle School Science The Praxis II Middle School Science 0439 exam is designed to measure the knowledge and competencies necessary for a beginning teacher of middle school science The 2 hour Praxis II Middle School Science 0439 exam consists of three constructed response essays and 90 multiple choice questions divided into the following content categories scientific methodology basic principles of science physical sciences life sciences earth space sciences and science technology society In CliffsNotese Praxis II Middle School Science two practice tests with complete answers and explanations help you pinpoint areas for further study while reviews and exercises address all of the test topics you ll encounter on exam day Plus proven test taking strategies help you score higher Two full length practice tests Subject reviews of every topic covered on the test Practice questions for every subject review If you re an aspiring teacher looking to take the Praxis II Middle School Science exam CliffsNotes is your ticket to scoring high at exam time **Cracking the ASVAB, 4th Edition** Princeton Review,2017-05 If it s on the ASVAB it s in this book The Princeton Review s Cracking the ASVAB brings you everything you need to conquer the ASVAB exams Inside you ll find comprehensive reviews of the test topics proven strategies for overcoming challenging questions and all the practice you need to get the score you want from the test prep experts at The Princeton Review This 4th Edition includes 3 full length practice tests with detailed answer explanations Tried and true strategies to help you avoid traps and beat the test Diagrams charts and visual aids to simplify memorization An extensive vocabulary list to help you prepare for the Word Knowledge and Paragraph Comprehension sections of the test Tons of practice questions with step by step answers and explanations **Princeton Review ASVAB Prep, 5th Edition** The Princeton Review,2020-04-21 IF IT S ON THE ASVAB WE VE GOT IT COVERED IN THIS BOOK The Princeton Review s ASVAB Prep 5th Edition brings you everything you need to do well on the Armed Services Vocational Aptitude Battery ASVAB set of exams a k a the test you ll need to take to join the U S military Your ASVAB score is important It s used not only to ensure you qualify to enlist but also to determine how qualified you are for specific Military Occupational Specialities and even some enlistment bonuses Scoring well on the ASVAB can increase your chances of getting the speciality job you want Inside ASVAB Prep you ll find easy to understand thorough reviews of the topics the tests will cover straightforward strategies for working through tough questions and all the practice you need to get put your best foot forward with a high ASVAB score This 5th Edition includes 4 full length practice ASVAB tests with detailed answer explanations Tried and true

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