

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. $^{12}_5X$
 - b. $^{15}_5X$
 - c. $^{12}_6X$
 - d. $^{15}_7X$
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%).

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

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

Physical Science Atomic Structure Test Answers

Sabine Zange



Physical Science Atomic Structure Test Answers:

The book delves into Physical Science Atomic Structure Test Answers. Physical Science Atomic Structure Test Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Atomic Structure Test Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Atomic Structure Test Answers
 - Chapter 2: Essential Elements of Physical Science Atomic Structure Test Answers
 - Chapter 3: Physical Science Atomic Structure Test Answers in Everyday Life
 - Chapter 4: Physical Science Atomic Structure Test Answers in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Atomic Structure Test Answers.

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 $2 \text{ CO}_2(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g})$ $\Delta H = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) \rightarrow \frac{1}{2} \text{O}_2(\text{g}) + \text{H}_2(\text{g})$ $\Delta H = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g})$ $\Delta H = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l})$ $\Delta H = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l})$ $\Delta H = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + 1/2 \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$ $\Delta H = 285 \text{ kJ/mole}$

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combustion of magnesium oxide Mg s 1 2O_2 g MgO s we used

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O ΔH 55.8 kJ as shown note that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}}$

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 $\text{2 NaOH (s)} + \text{H}^+ \text{aq} + \text{Cl}^- \text{aq} \rightarrow \text{H}_2\text{O (l)}$
 $\text{3 NaOH (s)} + \text{H}^+ \text{aq} + \text{Cl}^- \text{aq} \rightarrow \text{H}_2\text{O (l)}$