

Atomic Structure Worksheet

Label the parts of an atom on the diagram below.



4. What type of charge does a proton have?

Positive (+1)

5. What type of charge does a neutron have?

Neutral (0)

6. What type of charge does an electron have?

Negative (-1)

7. Which two subatomic particles are located in the nucleus of an atom?

Protons and neutrons

8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?

35

9. What is the atomic number of the atom in the diagram above?

5

10. What is the atomic mass/mass number of the atom in the diagram above?

(11+11=22) *protons and neutrons added together) 22 is the atomic mass/mass number

11. How many protons are in the nucleus of an atom with an atomic number of 15?

15 *number of protons is the same as the atomic number

12. How many electrons are in the nucleus of an atom with an atomic number of 20?

20

13. How many neutrons are in the nucleus of an atom with an atomic number of 25?
(use Periodic Table for mass)

30 Neutrons. atomic mass: 54.938 ~ 55 atomic number: 25.....55-25=30

14. What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?

Mass number= 6.94. (Li-Lithium has an atomic number of 3 which means it has 3 protons.

15. How many neutrons are in the nucleus of an atom that has an atomic mass of 36 and an atomic number of 25?

Neutrons= 11 (atomic mass: 36 - 25 :atomic number)

Worksheet Chapter Atomic Structure

Gurukul

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Gurukul text.

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Table of Contents Worksheet Chapter Atomic Structure

1. Understanding the eBook Worksheet Chapter Atomic Structure
 - The Rise of Digital Reading Worksheet Chapter Atomic Structure
 - Advantages of eBooks Over Traditional Books
2. Identifying Worksheet Chapter Atomic Structure
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Worksheet Chapter Atomic Structure
 - User-Friendly Interface
4. Exploring eBook Recommendations from Worksheet Chapter Atomic Structure
 - Personalized Recommendations
 - Worksheet Chapter Atomic Structure User Reviews and Ratings
 - Worksheet Chapter Atomic Structure and Bestseller Lists
5. Accessing Worksheet Chapter Atomic Structure Free and Paid eBooks
 - Worksheet Chapter Atomic Structure Public Domain eBooks
 - Worksheet Chapter Atomic Structure eBook Subscription Services
 - Worksheet Chapter Atomic Structure Budget-Friendly Options

6. Navigating Worksheet Chapter Atomic Structure eBook Formats
 - ePub, PDF, MOBI, and More
 - Worksheet Chapter Atomic Structure Compatibility with Devices
 - Worksheet Chapter Atomic Structure Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Worksheet Chapter Atomic Structure
 - Highlighting and Note-Taking Worksheet Chapter Atomic Structure
 - Interactive Elements Worksheet Chapter Atomic Structure
8. Staying Engaged with Worksheet Chapter Atomic Structure
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Worksheet Chapter Atomic Structure
9. Balancing eBooks and Physical Books Worksheet Chapter Atomic Structure
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Worksheet Chapter Atomic Structure
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Worksheet Chapter Atomic Structure
 - Setting Reading Goals Worksheet Chapter Atomic Structure
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Worksheet Chapter Atomic Structure
 - Fact-Checking eBook Content of Worksheet Chapter Atomic Structure
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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