

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)

Structure Of An Atom Worksheet Answer Key

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Table of Contents Structure Of An Atom Worksheet Answer Key

1. Understanding the eBook Structure Of An Atom Worksheet Answer Key
 - The Rise of Digital Reading Structure Of An Atom Worksheet Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Structure Of An Atom Worksheet Answer Key
 - 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 Structure Of An Atom Worksheet Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structure Of An Atom Worksheet Answer Key
 - Personalized Recommendations
 - Structure Of An Atom Worksheet Answer Key User Reviews and Ratings
 - Structure Of An Atom Worksheet Answer Key and Bestseller Lists
5. Accessing Structure Of An Atom Worksheet Answer Key Free and Paid eBooks

- Structure Of An Atom Worksheet Answer Key Public Domain eBooks
 - Structure Of An Atom Worksheet Answer Key eBook Subscription Services
 - Structure Of An Atom Worksheet Answer Key Budget-Friendly Options
6. Navigating Structure Of An Atom Worksheet Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Structure Of An Atom Worksheet Answer Key Compatibility with Devices
 - Structure Of An Atom Worksheet Answer Key Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structure Of An Atom Worksheet Answer Key
 - Highlighting and Note-Taking Structure Of An Atom Worksheet Answer Key
 - Interactive Elements Structure Of An Atom Worksheet Answer Key
 8. Staying Engaged with Structure Of An Atom Worksheet Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structure Of An Atom Worksheet Answer Key
 9. Balancing eBooks and Physical Books Structure Of An Atom Worksheet Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structure Of An Atom Worksheet Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Structure Of An Atom Worksheet Answer Key
 - Setting Reading Goals Structure Of An Atom Worksheet Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Structure Of An Atom Worksheet Answer Key
 - Fact-Checking eBook Content of Structure Of An Atom Worksheet Answer Key
 - 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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