Atomic Structure – Study Guide Grade S – Physical Science

Atom -- smallest particle of an element that has all the properties of that element.

3 main subatomic particles:

- I. protons
- 2. neutrons
- 3. electrons



nucleus -- core of the atom, it is positively charged 99.9 % of the atoms mass is in the nucleus.

Protons and neutrons are found in the nucleus.

Protons — have a positive (+) charge. Found in the nucleus of the atom.

The number of protons determines what element an atom is.

Example: Carbon has 6 protons

Atomic Number - the number of protons, each element has it own unique number of protons.

 Neutrons — a neutral charge (no charge) found in the nucleus. These determine whether an element is radioactive.

Protons and neutrons are about ovar atomic mass unit (annu). Electrons have a much smaller mass — it takes almost 2000 electrons to equal 1 annu.

Atomic Mass - the total number of protons and neutrons.

Mass Number - Atomic Mass that is rounded.

To find just how many neutrons an atom has:

neutrons = atomic mass - atomic

Isotopes - atoms of the same element that have different number of neutrons.

Carbon-12 Carbon-14
6 protons 6 protons
6 neutrons 8 neutrons

NOTICE - the number of protons DOES NOT change if it is to be carbon -- only the number of neutrons.

3. Electrons - have a negative (-) charge. Found moving around the atom is a space called orbital's (shells). Those electrons farthest away from the nucleus are called <u>valence electrons</u>, and are involved in the formation of chemical bonds.

In an uncharged atom the number of protons is equal to the number of electrons.

lon - when an atom gains or loses an electron (has a charge)

If an atom gains electrons = negative (-) charge

If an atom loses electrons - positive (+) charge

How to find:

protons - atomic

neutrons = atomic mass - atomic

electrons = atomic # — charge (if any)

Matter And Atomic Structure Study Guide Answers

Daniel F McAuley

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Table of Contents Matter And Atomic Structure Study Guide Answers

- 1. Understanding the eBook Matter And Atomic Structure Study Guide Answers
 - The Rise of Digital Reading Matter And Atomic Structure Study Guide Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Matter And Atomic Structure Study Guide Answers
 - 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 Matter And Atomic Structure Study Guide Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Matter And Atomic Structure Study Guide Answers
 - Personalized Recommendations

- Matter And Atomic Structure Study Guide Answers User Reviews and Ratings
- Matter And Atomic Structure Study Guide Answers and Bestseller Lists
- 5. Accessing Matter And Atomic Structure Study Guide Answers Free and Paid eBooks
 - Matter And Atomic Structure Study Guide Answers Public Domain eBooks
 - Matter And Atomic Structure Study Guide Answers eBook Subscription Services
 - Matter And Atomic Structure Study Guide Answers Budget-Friendly Options
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- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Matter And Atomic Structure Study Guide Answers
 - Interactive Elements Matter And Atomic Structure Study Guide Answers
- 8. Staying Engaged with Matter And Atomic Structure Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matter And Atomic Structure Study Guide Answers
- 9. Balancing eBooks and Physical Books Matter And Atomic Structure Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matter And Atomic Structure Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matter And Atomic Structure Study Guide Answers
 - Setting Reading Goals Matter And Atomic Structure Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matter And Atomic Structure Study Guide Answers
 - Fact-Checking eBook Content of Matter And Atomic Structure Study Guide Answers

- 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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