

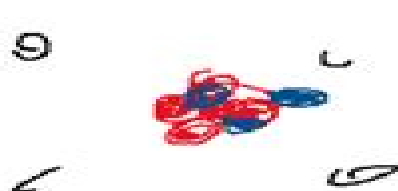
Chemthink guided notes – Ions

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At certain times atoms can gain or lose one or more ____electrons_____. When this happens we say that the atom has formed an _ion_____. Ions are just individual atoms or groups of atoms that has a charge. This charge comes from an imbalance of in the number of ____positive_____ protons and ____negative_____ electrons.

Since the electrons don't contribute to the ____mass_____ of the atom, gaining or losing electrons does not change the overall mass of the atom. It does affect it in other ways. Ions can behave very differently than the atoms from which they were formed. As we will see in later units, forming ions is one way that atoms bond together to make new substances.

Draw a picture of the lithium atom and write the particles in the particle inventory



Protons 3

Electrons 3

Neutrons 4 _____

total charge = 0

symbol: Li

What happens when an electron is lost?

symbol?

Draw a picture of the oxygen atom and write the particles in the particle inventory



Protons 8

Electrons 8

Neutrons 8 _____

total charge = 0

symbol: O

What happens when two electrons are gained?

An ion of -2 charge forms

symbol? O^{2-}

Answers To Chemthink Questions Ions

Buchanan



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Table of Contents Answers To Chemthink Questions Ions

1. Understanding the eBook Answers To Chemthink Questions Ions
 - The Rise of Digital Reading Answers To Chemthink Questions Ions
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Chemthink Questions Ions
 - 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 Answers To Chemthink Questions Ions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Chemthink Questions Ions
 - Personalized Recommendations
 - Answers To Chemthink Questions Ions User Reviews and Ratings
 - Answers To Chemthink Questions Ions and Bestseller Lists
5. Accessing Answers To Chemthink Questions Ions Free and Paid eBooks
 - Answers To Chemthink Questions Ions Public Domain eBooks
 - Answers To Chemthink Questions Ions eBook Subscription Services
 - Answers To Chemthink Questions Ions Budget-Friendly Options

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