

POGIL 2 Ions

How are ions made from neutral atoms?

You have learned that not all atoms of an element are the same. Variation in the number of neutrons results in different isotopes of the element. In this activity we will explore another variation that can take place—the loss and gain of electrons. The exchange of electrons between atoms is a very common way for chemical change to take place. We will see it many times throughout the year.

1. Use Diagram 1 on the next page to complete the following table.

	Metal or Nonmetal	Number of protons in the atom	Number of protons in the ion	Number of neutrons in the atom	Number of neutrons in the ion	Number of electrons in the atom	Number of electrons in the ion	Charge on the ion
Lithium	metal	3	3	4	4	3	2	1+
Magnesium	<i>Metal</i>	12	12	12	12	12	10	2+
Aluminum	<i>Metalloid</i>	13	13	14	14	13	10	3+
Fluorine	<i>Non metal</i>	9	9	10	10	9	10	1-
Oxygen	nonmetal	8	8	8	8	8	10	2-
Nitrogen	<i>Non metal</i>	7	7	7	7	7	10	3-

2. Based on the table you completed in Question 1, what distinguishes a neutral atom from an ion?

A neutral atom has the same number of protons and electrons (no charge). An ion has a charge (# of protons does not equal # of electrons).

3. Examine the isotope symbols in Diagram 1.

- a. Where is the ion charge located in the isotope symbol?

Top right corner

- b. Is a charge indicated on the neutral atoms? If yes, where is it located?

No

4. Which subatomic particle carries a positive charge?

Protons are positive

5. Which subatomic particle carries a negative charge?

Electrons are negative

6. Propose a mathematical equation to calculate the charge on an ion from the number of protons and electrons in an ion. Confirm that your equation works using two positive ion examples and two negative ion examples from Diagram 1.

The charge of an ion = # of protons - # of electrons

Ions Pogil Key

WJ Hussar



Ions Pogil Key:

The book delves into Ions Pogil Key. Ions Pogil Key is a vital 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 Ions Pogil Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Ions Pogil Key
- Chapter 2: Essential Elements of Ions Pogil Key
- Chapter 3: Ions Pogil Key in Everyday Life
- Chapter 4: Ions Pogil Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Ions Pogil Key. The first chapter will explore what Ions Pogil Key is, why Ions Pogil Key is vital, and how to effectively learn about Ions Pogil Key.
3. In chapter 2, this book will delve into the foundational concepts of Ions Pogil Key. The second chapter will elucidate the essential principles that need to be understood to grasp Ions Pogil Key in its entirety.
4. In chapter 3, this book will examine the practical applications of Ions Pogil Key in daily life. This chapter will showcase real-world examples of how Ions Pogil Key can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Ions Pogil Key in specific contexts. The fourth chapter will explore how Ions Pogil Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Ions Pogil Key. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ions Pogil Key.

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Table of Contents Ions Pogil Key

1. Understanding the eBook Ions Pogil Key

- The Rise of Digital Reading Ions Pogil Key
- Advantages of eBooks Over Traditional Books
- 2. Identifying Ions Pogil 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 Ions Pogil Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ions Pogil Key
 - Personalized Recommendations
 - Ions Pogil Key User Reviews and Ratings
 - Ions Pogil Key and Bestseller Lists
- 5. Accessing Ions Pogil Key Free and Paid eBooks
 - Ions Pogil Key Public Domain eBooks
 - Ions Pogil Key eBook Subscription Services
 - Ions Pogil Key Budget-Friendly Options
- 6. Navigating Ions Pogil Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Ions Pogil Key Compatibility with Devices
 - Ions Pogil Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ions Pogil Key
 - Highlighting and Note-Taking Ions Pogil Key
 - Interactive Elements Ions Pogil Key
- 8. Staying Engaged with Ions Pogil Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ions Pogil Key

9. Balancing eBooks and Physical Books Ions Pogil Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ions Pogil Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ions Pogil Key
 - Setting Reading Goals Ions Pogil Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ions Pogil Key
 - Fact-Checking eBook Content of Ions Pogil 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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