

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 Activities For High School Chemistry

RS Peters

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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The Enigmatic Realm of **Ions Pogil Activities For High School Chemistry**: Unleashing the Language is Inner Magic

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Table of Contents **Ions Pogil Activities For High School Chemistry**

1. Understanding the eBook Ions Pogil Activities For High School Chemistry
 - The Rise of Digital Reading Ions Pogil Activities For High School Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Ions Pogil Activities For High School Chemistry
 - 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 Activities For High School Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ions Pogil Activities For High School Chemistry
 - Personalized Recommendations
 - Ions Pogil Activities For High School Chemistry User Reviews and Ratings
 - Ions Pogil Activities For High School Chemistry and Bestseller Lists

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