

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

Pogil Activities For High School Chemistry Ions Answer Key

Guillaume Favre



Pogil Activities For High School Chemistry Ions Answer Key:

The book delves into Pogil Activities For High School Chemistry Ions Answer Key. Pogil Activities For High School Chemistry Ions Answer Key is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pogil Activities For High School Chemistry Ions Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Pogil Activities For High School Chemistry Ions Answer Key
 - Chapter 2: Essential Elements of Pogil Activities For High School Chemistry Ions Answer Key
 - Chapter 3: Pogil Activities For High School Chemistry Ions Answer Key in Everyday Life
 - Chapter 4: Pogil Activities For High School Chemistry Ions Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Pogil Activities For High School Chemistry Ions Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Pogil Activities For High School Chemistry Ions Answer Key in its entirety.
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 5. In chapter 4, this book will scrutinize the relevance of Pogil Activities For High School Chemistry Ions Answer Key in specific contexts. This chapter will explore how Pogil Activities For High School Chemistry Ions Answer Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Pogil Activities For High School Chemistry Ions Answer Key. This 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Pogil Activities For High School Chemistry Ions Answer Key.

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