

Sodium becomes a cation, and chlorine becomes an anion.

Activity A: Ions	Get the Gizmo ready: <ul style="list-style-type: none"> Click Reset. Check that sodium and chlorine are still selected. 	
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Introduction: Some of the particles that make up atoms have an electrical charge. Electrons are negatively charged, while protons are positively charged. Particles with opposite charges (+ and -) attract, while particles with the same charge (+ and + or - and -) repel.

Question: What happens when atoms gain or lose electrons?

1. **Count:** Electrons move around the nucleus of atoms in specific shells, shown by the rings around the atoms in the Gizmo. The first ring holds two electrons, and the second holds eight. (Electrons in the inner rings are not shown; you can assume these rings are full.)

- A. Observe the sodium and chlorine atoms. Assuming that the inner rings are full of electrons, how many electrons are there total in each atom?

Sodium: 11 electrons

Chlorine: 17 electrons

- B. Each atom is neutrally charged, which means that each atom has the same number of protons and electrons. Based on this, how many protons are in each atom?

Sodium: 11 protons

Chlorine: 17 protons

2. **Observe:** Most atoms are stable with a configuration of eight valence electrons. This is known as the **octet rule**. How many valence electrons does each atom have?

Sodium: 1 valence electron

Chlorine: 7 valence electrons

3. **Form a bond:** Each electron has a charge of $1-$, and each proton has a charge of $1+$. You can calculate the charge of an atom by subtracting the number of electrons from the number of protons. Move an electron from the sodium to the chlorine atom.

- A. What are the charges of each atom now? Sodium: $+1$ Chlorine: -1

Turn on **Show charge** to check. These charged atoms are called **ions**.

- B. Is each ion stable? Explain.

Yes, each ion is stable. Chlorine only has 7 valence electrons, so gaining 1 more would lead to a stable full octet. Sodium on the other hand has 1 valence electron, by losing this electron it has just a regular shell of 8 electrons, also becoming a stable octet.

Click **Check** in the lower right corner of the Gizmo to check.

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Ionic Bonds Gizmo Activity A Ions Key

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Ionic Bonds Gizmo Activity A Ions Key:

Ionic Bonds | Characteristics of Ionic Bonds and Properties of Ionic Compounds | Grade 6-8 Physical Science Dot
EDU,2024-04-15 Dive into the electrifying world of Ionic Bonds Characteristics and Properties for grades 6 8 This insightful book unravels the mysteries of ionic bonds and compounds explaining their formation characteristics and role in the matter s structure Discover the intricacies of atoms the exchange of electrons and the fascinating properties of ionic compounds through engaging examples and explanations Perfect for educators and students this resource illuminates a foundational concept in physical science Add it to your science curriculum to spark curiosity and understanding in young learners

This book delves into Ionic Bonds Gizmo Activity A Ions Key. Ionic Bonds Gizmo Activity A Ions Key is a vital 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 Ionic Bonds Gizmo Activity A Ions Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ionic Bonds Gizmo Activity A Ions Key
 - Chapter 2: Essential Elements of Ionic Bonds Gizmo Activity A Ions Key
 - Chapter 3: Ionic Bonds Gizmo Activity A Ions Key in Everyday Life
 - Chapter 4: Ionic Bonds Gizmo Activity A Ions Key in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Ionic Bonds Gizmo Activity A Ions Key. The first chapter will explore what Ionic Bonds Gizmo Activity A Ions Key is, why Ionic Bonds Gizmo Activity A Ions Key is vital, and how to effectively learn about Ionic Bonds Gizmo Activity A Ions Key.
3. In chapter 2, the author will delve into the foundational concepts of Ionic Bonds Gizmo Activity A Ions Key. This chapter will elucidate the essential principles that need to be understood to grasp Ionic Bonds Gizmo Activity A Ions Key in its entirety.
4. In chapter 3, this book will examine the practical applications of Ionic Bonds Gizmo Activity A Ions Key in daily life. The third chapter will showcase real-world examples of how Ionic Bonds Gizmo Activity A Ions Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Ionic Bonds Gizmo Activity A Ions Key in specific contexts. This chapter will explore how Ionic Bonds Gizmo Activity A Ions Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Ionic Bonds Gizmo Activity A Ions 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ionic Bonds Gizmo Activity A Ions Key.

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