

Student Exploration: Ionic Bonds

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Nate and Clara are drawing pictures with markers. There are 8 markers in a set. Nate has 9 markers and Clara has 7. What can Nate and Clara do so that each of them has a full set?

Nate can give Clara a marker


2. Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

Maggie can give Fred and Florence one marker each

Gizmo Warm-up

Just like students sharing markers, atoms sometimes share or swap electrons. By doing this, atoms form bonds. The Ionic Bonds Gizmo™ allows you to explore how **ionic bonds** form.

To begin, check that **Sodium (Na)** and **Chlorine (Cl)** are selected from the menus at right. Click **Play**

() to see electrons orbiting the nucleus of each atom. (Note: These atom models are simplified and not meant to be realistic.)




1. Each atom consists of a central nucleus and several **shells** that contain electrons. The outermost electrons are called **valence electrons**. (Inner electrons are not shown.)

How many valence electrons does each atom have?

Sodium: 1

Chlorine: 7

2. Click Pause () . Elements can be classified as **metals** and **nonmetals**. Metals do not hold on to their valence electrons very tightly, while nonmetals hold their electrons tightly. **Electron affinity** is a measure of how tightly the valence electrons are held.

A. Try pulling an electron away from each atom. Based on this experiment, which atom is a metal?

sodium

Which is a nonmetal?

chlorine

B. Try moving an electron from the metal to the nonmetal. What happens?

The chlorine atom took the electron and added it to its outermost shell

Student Exploration Ionic Bonds Explore Learning

SA Dillow



Student Exploration Ionic Bonds Explore Learning:

The Learning Rainforest: Great Teaching in Real Classrooms Tom Sherrington, 2017-10-23 The Learning Rainforest is an attempt to capture various different elements of our understanding and experience of teaching It is a celebration of great teaching the joy of it and the intellectual and personal rewards that teaching brings It is aimed at teachers of all kinds busy people working in complex environments with little time to spare The core of the book is a guide to making teaching both effective and manageable it provides an accessible summary of key contemporary evidence based ideas about teaching and learning and the debates that all teachers should be engaging in It s a book packed with strategies for making great teaching attainable in the context of real schools The Learning Rainforest metaphor is an attempt to capture various different elements of our understanding and experience of teaching Tom s ideas about what constitutes great teaching are drawn from his experiences as a teacher and a school leader over the last 30 years alongside everything he has read and all the debates he s engaged with during that time An underlying theme of this book is that a career in teaching is a process of continual personal development and professional learning as is engaging in fundamental debates rage on about the kind of education we value As you meet each new class and move from school to school your perspectives shift your sense of what seems to work adjusts to each new context In writing this book Tom is trying to capture some of the journey he s been on He has learned that it is ok to change your mind More than that sometimes it is simply necessary to get your head out of the sand to change direction to admit your mistakes The Software Encyclopedia 2001 ,2001 Bulletin of the Atomic Scientists ,1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Bulletin of the Atomic Scientists ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

This book delves into Student Exploration Ionic Bonds Explore Learning. Student Exploration Ionic Bonds Explore Learning is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Student Exploration Ionic Bonds Explore Learning, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Student Exploration Ionic Bonds Explore Learning
 - Chapter 2: Essential Elements of Student Exploration Ionic Bonds Explore Learning
 - Chapter 3: Student Exploration Ionic Bonds Explore Learning in Everyday Life
 - Chapter 4: Student Exploration Ionic Bonds Explore Learning in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Student Exploration Ionic Bonds Explore Learning. The first chapter will explore what Student Exploration Ionic Bonds Explore Learning is, why Student Exploration Ionic Bonds Explore Learning is vital, and how to effectively learn about Student Exploration Ionic Bonds Explore Learning.
 3. In chapter 2, the author will delve into the foundational concepts of Student Exploration Ionic Bonds Explore Learning. The second chapter will elucidate the essential principles that need to be understood to grasp Student Exploration Ionic Bonds Explore Learning in its entirety.
 4. In chapter 3, the author will examine the practical applications of Student Exploration Ionic Bonds Explore Learning in daily life. This chapter will showcase real-world examples of how Student Exploration Ionic Bonds Explore Learning can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Student Exploration Ionic Bonds Explore Learning in specific contexts. This chapter will explore how Student Exploration Ionic Bonds Explore Learning is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Student Exploration Ionic Bonds Explore Learning. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 Student Exploration Ionic Bonds Explore Learning.

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Student Exploration Ionic Bonds Explore Learning Introduction

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