

## *Chemistry Lab Making Ionic Compounds Answers*

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**Chemistry Lab Making Ionic Compounds**

The goal of this lab is for you to discover some of the properties of ionic compounds. The physical properties of a substance such as flame color, crystal structure, solubility, conductivity and melting point of a substance tell us a lot about the type of bonding in a compound. ! .

**Ionic Compounds Properties Lab**

When solutions of some ionic compounds are mixed, the cation from one and the anion from another form an insoluble compound which appears as cloudy or grainy solid, called a precipitate. On the other hand, if all cation-anion combinations form soluble pairs, no precipitate appears. All of the ions remain in solution.

**Forming and Naming Ionic Compounds**

1. Make sure all lab materials are clean before you start. 2. Arrange the iron ring on the ring stand so it is approximately 7 cm above the Bunsen burner. 3. Place the clay triangle on the iron ring. 4. Using the balance, measure the mass of the clean, dry, crucible. Record the mass in the data table. 5.

**Making Ionic Compounds Lab - Chemistry by Mrs. Hinkson**

Lab Ch 5 Making Ionic Compounds Post-Lab Questions 1. What kind of energy (endothermic or exothermic) was released by the reaction? 2. Using Numbers: How do you know that the magnesium metal reacts with certain components of the air? (Use your data table to help answer this) 3. Predicting: Magnesium reacts with both oxygen and nitrogen from

**Lab Ch 5 Making Ionic Compounds - Chemistry - Home**

This is a lab that is designed to have students look at the ionic compounds. The materials that are needed are the cations and the anions, 8 pipettes, and a well plate. They students are looking at the reactions that happen between that cations and the anions.

**Forming Ionic Compounds Lab**

When solutions of some ionic compounds are mixed, the cation from one and the anion from another form an insoluble compound which appears as cloudy or grainy solid, called a precipitate. On the other hand, if all cation-anion

**Forming and Naming Ionic Compounds Lab**

This is a high school Chemistry experiments that examines ionic and covalent compounds. We use three different test to compare the ionic and covalent compounds. We use melting point, solubility in ...

**Types of Bonds Lab**

Chemical compounds are combinations of atoms held together by chemical bonds. These chemical bonds are of two basic types- ionic and covalent. Ionic bonds result when one or more electrons are transferred from one atom to another and ions are formed. Covalent bonds are formed when atoms share electrons.

**Distinguishing Between Ionic and Covalent Compounds Lab**

compounds are held together by chemical bonds formed by the attraction of oppositely charged ions. 7.1 Ion Formation MAIN Idea Ions are formed when atoms gain or lose valence electrons to achieve a stable octet electron configuration. 7.2 Ionic Bonds and Ionic Compounds MAIN Idea Oppositely charged ions attract each other, forming electrically neutral ionic compounds.

**Chapter 7: Ionic Compounds and Metals - mcvts.net**

Laboratory #6: Naming Compounds. Part A: Nomenclature of Binary Compounds: Ionic Compounds (Metal + Non-Metal) Compound Formula Cation Formula and name Anion Formula and name Compound Name Example: NaCl Na +, sodium ion Cl-, chloride ion Sodium chloride.

### Laboratory #6: Naming Compounds - PCC

Ionic Compounds Ionic bonding occurs when there is a large difference in electronegativity between two atoms. This large difference leads to the loss of an electron from the less electronegative atom and the gain of that electron by the more electronegative atom, resulting in two ions.

### Comparison between Covalent and Ionic Compounds ...

Ionic Bonding Chapter Pages ----- 1 - Overview 2 - Alkali Metals 3 - Alkaline Earth Metals 4 - Noble Gases 5 - Halogens 6 - Oxygen Family 7 - Nitrogen Family 8 - Carbon Family 9 - Boron Family 10 - Transition Metals Activity: Ionic Bonding

### Interactives . The Periodic Table . Groups . Ionic Bonding

Make sure the equations are balanced. (The first two are provided as examples) Molecular  $\text{BaCl}_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{BaSO}_4(\text{s}) + 2 \text{NaCl}$  . Total Ionic  $\text{Ba}^{2+} + 2 \text{Cl}^- + 2 \text{Na}^+ + \text{SO}_4^{2-} \rightarrow \text{BaSO}_4(\text{s}) + 2 \text{Na}^+ + 2 \text{Cl}^-$  Net Ionic  $\text{Ba}^{2+}(\text{aq}) + \text{SO}_4^{2-}(\text{aq}) \rightarrow \text{BaSO}_4(\text{s})$  Molecular  $\text{Na}_2\text{CO}_3 + \text{CaCl}_2 \rightarrow \text{CaCO}_3(\text{s}) + 2\text{NaCl}$

### IONIC COMPOUNDS, EXPERIMENT #2

ed compounds. Figure 3: Chemical structure for table sugar (sucrose). Here, different atoms combine via covalent bonding, as opposed to ionic bonding. No/ce the complexity of this molecule compared to NaCl. Lab 12: Ionic and Covalent Bonds

### Lab Manual Introductory Chemistry: A Green Approach Version 1

(HINT: ionic compounds are made of a metal plus a non-metal; covalent compounds are made of non-metals combined with other non-metals) 5.) Using the Periodic Table explain how the position of the elements that make up the salts (NaCl,  $\text{CaCl}_2$  and KCl) can be used to tell if the bonds are ionic or covalent. (HINT: ionic compounds are

### Ionic or Covalent Lab - Jordan School District

Each lab group needs: 6 inches of pre-soaked cotton string (I make 2-3 strings/group in case they want to make multiple attempts), ring stand and ring, pop top, and matches (fire source). The string should be tied to the pop top and then to the ring. Light the string on fire, and don't disturb it with heavy breathing.

### Introducing Ionic Bonds: How does the string hold together?

Example ionic compounds: Sodium chloride ( $\text{NaCl}$ ), potassium nitrate ( $\text{KNO}_3$ ). Ionic bonded substances typically have the following characteristics. High melting point (solid at room temperature) Hard but brittle (can shatter)

### 1: Ionic Bonding - Honors Chemistry Online - Google Sites

oceans and the compounds that make up most of Earth's crust are held together by ionic bonds. The rock surface, the climbers' equipment, the atmosphere, and even the climbers are composed almost entirely of compounds and mixtures of compounds. Visit the Chemistry Web site at [chemistrymc.com](http://chemistrymc.com) to find links about ionic compounds.

### Chapter 8: Ionic Compounds - Neshaminy School District

As students play the Chemistry Name Game, they will learn why compounds ... building neutral ionic compounds (i.e. a student who has one sodium ion and one chloride ion can make sodium chloride) where the number of dots exactly ... Laboratory Manual for Principles of General Chemistry.

### The Chemistry Name Game - American Chemical Society

Activity for intermediate high school chemistry. Cut-and-paste task demonstrating how formulas for ionic compounds are derived. Covers all valency combinations and includes tables to complete once the activity is completed. 2-3 lesson duration. Includes teacher instructions and student example.

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