

# Writing Chemical Formulas Worksheet

## Chemical Formula Writing Worksheet

Write chemical formulas for the compounds in each box. The names are found by finding the intersection between the cations and anions. Example: The first box is the intersection between the "zinc" cation and the "chloride" anion, so you should write "ZnCl<sub>2</sub>", as shown.

	zinc	iron (II)	iron (III)	gallium	silver	lead (IV)
chloride	ZnCl <sub>2</sub>					
acetate						
nitrate						
oxide						
nitride						
sulfate						

Write the formulas for the following compounds:

- 1) copper (II) chloride \_\_\_\_\_
- 2) lithium acetate \_\_\_\_\_
- 3) vanadium (III) selenide \_\_\_\_\_
- 4) manganese (IV) nitride \_\_\_\_\_
- 5) beryllium oxide \_\_\_\_\_
- 6) sodium sulfate \_\_\_\_\_
- 7) aluminum arsenide \_\_\_\_\_
- 8) potassium permanganate \_\_\_\_\_
- 9) chromium (VI) cyanide \_\_\_\_\_
- 10) tin (II) sulfite \_\_\_\_\_
- 11) vanadium (V) fluoride \_\_\_\_\_
- 12) ammonium nitrate \_\_\_\_\_

## Writing Chemical Formulas Worksheet: A Comprehensive Guide

Are you struggling to master the art of writing chemical formulas? Do you find yourself overwhelmed by the seemingly endless combinations of elements and their charges? This comprehensive guide provides everything you need to conquer chemical formulas, including a downloadable worksheet to solidify your understanding. We'll break down the process step-by-step, covering essential concepts, providing practical examples, and offering valuable tips to ensure success. By the end of this post, you'll be confidently writing chemical formulas for various compounds.

# Understanding the Basics: Elements and Ions

Before diving into writing chemical formulas, it's crucial to understand the fundamental building blocks: elements and ions. Elements are pure substances consisting of only one type of atom, represented by chemical symbols (e.g., H for hydrogen, O for oxygen). Ions, on the other hand, are atoms that have gained or lost electrons, resulting in a net positive or negative charge (cations and anions, respectively). Knowing the charges of common ions is essential for accurately writing chemical formulas.

## #### Common Ions and Their Charges:

It's helpful to memorize the charges of common ions. For example:

Group 1 (Alkali Metals): +1 charge (e.g.,  $\text{Na}^+$ ,  $\text{K}^+$ )

Group 2 (Alkaline Earth Metals): +2 charge (e.g.,  $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$ )

Group 17 (Halogens): -1 charge (e.g.,  $\text{Cl}^-$ ,  $\text{Br}^-$ )

Oxygen: -2 charge ( $\text{O}^{2-}$ )

Hydrogen: +1 ( $\text{H}^+$ ) or -1 ( $\text{H}^-$ ) depending on the compound.

Transition metals: These have variable charges, which are often indicated in the name of the compound (e.g., Iron(II) has a +2 charge, Iron(III) has a +3 charge).

# Writing Chemical Formulas: A Step-by-Step Guide

Writing a chemical formula involves balancing the charges of the constituent ions to achieve a neutral overall charge. Here's a step-by-step guide:

1. Identify the ions: Determine the elements or polyatomic ions involved in the compound.
2. Determine the charges: Find the charge of each ion. Use a periodic table or a reference sheet of common polyatomic ions.
3. Balance the charges: Use subscripts to indicate the number of each ion needed to balance the positive and negative charges. The total positive charge must equal the total negative charge.
4. Simplify the formula: If possible, simplify the subscripts to the lowest whole-number ratio.

## #### Examples:

Sodium Chloride ( $\text{NaCl}$ ): Sodium ( $\text{Na}^+$ ) has a +1 charge, and chlorine ( $\text{Cl}^-$ ) has a -1 charge. One sodium ion balances one chlorine ion, resulting in the formula  $\text{NaCl}$ .

Magnesium Oxide ( $\text{MgO}$ ): Magnesium ( $\text{Mg}^{2+}$ ) has a +2 charge, and oxygen ( $\text{O}^{2-}$ ) has a -2 charge. One magnesium ion balances one oxygen ion, resulting in the formula  $\text{MgO}$ .

Aluminum Oxide ( $\text{Al}_2\text{O}_3$ ): Aluminum ( $\text{Al}^{3+}$ ) has a +3 charge, and oxygen ( $\text{O}^{2-}$ ) has a -2 charge. To balance, you need two aluminum ions (+6 total charge) and three oxygen ions (-6 total charge), resulting in the formula  $\text{Al}_2\text{O}_3$ .

Calcium Phosphate ( $\text{Ca}_3(\text{PO}_4)_2$ ): Calcium ( $\text{Ca}^{2+}$ ) has a +2 charge, and phosphate ( $\text{PO}_4^{3-}$ ) has a -3 charge. To balance, you need three calcium ions (+6 total charge) and two phosphate ions (-6 total charge), resulting in the formula  $\text{Ca}_3(\text{PO}_4)_2$ . Note the use of parentheses to show that the phosphate ion is a group.

## Advanced Concepts: Polyatomic Ions and Transition Metals

### #### Working with Polyatomic Ions:

Polyatomic ions are groups of atoms that carry a net charge. These must be treated as a single unit when writing chemical formulas. Remember to use parentheses when more than one polyatomic ion is needed in the formula.

### #### Dealing with Transition Metals:

Transition metals often have variable charges. The charge is usually indicated in the name of the compound (e.g., Iron(II) chloride). You'll need to use this information to determine the correct number of anions needed for charge balance.

## Practice Makes Perfect: Your Chemical Formula Worksheet

Now it's time to put your knowledge to the test! [Link to downloadable worksheet PDF here - this would be a separate file created and hosted externally]. This worksheet includes various exercises to practice writing chemical formulas, covering a range of elements and polyatomic ions. Work through the exercises at your own pace, and check your answers against the answer key (also included in the worksheet).

## Conclusion

Mastering the skill of writing chemical formulas is a crucial step in understanding chemistry. By understanding the basic principles of ionic charges and following the steps outlined in this guide, you can confidently tackle the complexities of chemical nomenclature. Remember to practice regularly using the provided worksheet and additional resources to build your proficiency.

## FAQs

1. Where can I find a list of common polyatomic ions? Most chemistry textbooks and online resources (like Chemguide or Khan Academy) provide comprehensive lists of common polyatomic ions and their charges.
2. What if I get the subscripts wrong? If the charges aren't balanced, your formula will be incorrect. Double-check your charges and try again, focusing on achieving a net neutral charge.
3. Are there any online tools to help me write chemical formulas? Yes, several online calculators and simulators can help you check your answers and provide additional practice. Search for "chemical formula calculator" online.
4. How important is memorizing the charges of common ions? Memorizing common ion charges is highly beneficial. It significantly speeds up the process of writing chemical formulas and improves your overall understanding of chemical bonding.
5. What if I encounter a compound with a complex formula? Break down the complex formula into smaller, manageable parts. Identify the individual ions and their charges, then balance them step-by-step. Remember to use parentheses appropriately for polyatomic ions.

**writing chemical formulas worksheet: *Powerful Ideas of Science and How to Teach Them*** Jasper Green, 2020-07-19 A bullet dropped and a bullet fired from a gun will reach the ground at the same time. Plants get the majority of their mass from the air around them, not the soil beneath them. A smartphone is made from more elements than you. Every day, science teachers get the opportunity to blow students' minds with counter-intuitive, crazy ideas like these. But getting students to understand and remember the science that explains these observations is complex. To help, this book explores how to plan and teach science lessons so that students and teachers are thinking about the right things – that is, the scientific ideas themselves. It introduces you to 13 powerful ideas of science that have the ability to transform how young people see themselves and the world around them. Each chapter tells the story of one powerful idea and how to teach it alongside examples and non-examples from biology, chemistry and physics to show what great science teaching might look like and why. Drawing on evidence about how students learn from cognitive science and research from science education, the book takes you on a journey of how to plan and teach science lessons so students acquire scientific ideas in meaningful ways. Emphasising the important relationship between curriculum, pedagogy and the subject itself, this exciting book will help you teach in a way that captivates and motivates students, allowing them to share in the delight and wonder of the explanatory power of science.

**writing chemical formulas worksheet: *Chemistry 2e*** Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two-semester general chemistry course. The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The book also includes a number of innovative features, including interactive exercises and real-world applications, designed to enhance student learning. The second edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Substantial improvements have been made in the figures, illustrations, and example exercises that support the text narrative. Changes made in Chemistry 2e are described in the preface to help instructors

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**writing chemical formulas worksheet:** Quantities, Units and Symbols in Physical Chemistry International Union of Pure and Applied Chemistry. Physical and Biophysical Chemistry Division, 2007 Prepared by the IUPAC Physical Chemistry Division this definitive manual, now in its third edition, is designed to improve the exchange of scientific information among the readers in different disciplines and across different nations. This book has been systematically brought up to date and new sections added to reflect the increasing volume of scientific literature and terminology and expressions being used. The Third Edition reflects the experience of the contributors with the previous editions and the comments and feedback have been integrated into this essential resource. This edition has been compiled in machine-readable form and will be available online.

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**writing chemical formulas worksheet: ACS Style Guide** Anne M. Coghill, Lorrin R. Garson, 2006 In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain



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**writing chemical formulas worksheet: An Introduction to Chemistry** Mark Bishop, 2002 This book teaches chemistry at an appropriate level of rigor while removing the confusion and insecurity that impair student success. Students are frequently intimidated by prep chem; Bishop's text shows them how to break the material down and master it. The flexible order of topics allows unit conversions to be covered either early in the course (as is traditionally done) or later, allowing for a much earlier than usual description of elements, compounds, and chemical reactions. The text and superb illustrations provide a solid conceptual framework and address misconceptions. The book helps students to develop strategies for working problems in a series of logical steps. The Examples and Exercises give plenty of confidence-building practice; the end-of-chapter problems test the student's mastery. The system of objectives tells the students exactly what they must learn in each chapter and where to find it.

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Hopkins Team Learning Project, Robert E. Slavin, 1994

**writing chemical formulas worksheet: Pearson Chemistry Queensland 11 Skills and Assessment Book** Elissa Huddart, 2018-10-04 Introducing the Pearson Chemistry 11 Queensland Skills and Assessment Book. Fully aligned to the new QCE 2019 Syllabus. Write in Skills and Assessment Book written to support teaching and learning across all requirements of the new Syllabus, providing practice, application and consolidation of learning. Opportunities to apply and practice performing calculations and using algorithms are integrated throughout worksheets, practical activities and question sets. All activities are mapped from the Student Book at the recommend point of engagement in the teaching program, making integration of practice and rich learning activities a seamless inclusion. Developed by highly experienced and expert author teams, with lead Queensland specialists who have a working understand what teachers are looking for to support working with a new syllabus.

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**writing chemical formulas worksheet: Control Alt Achieve** Eric Curts, 2020-05-10 Transform Your Classroom with Tech Tools You Already Know With Control Alt Achieve, educational-technology wizard Eric Curts offers you the keys to revolutionizing classroom learning with the Google tools you already use. Dazzle your students by transforming Google Docs into blackout poetry, fire up creative possibilities by using Google Slides for comic strips, and make math more accessible--and fun--by turning to Google Drawings as an unlikely ally. With Eric as your guide to the technological horizons of Google tools, the possibilities are endless. With the step-by-step and easy-to-follow directions in Control Alt Achieve, you'll learn how to use common digital tools in unexpected ways. Whether you're new to technology or have been using Google tools for years, Eric Curts will help you innovate as you educate with ready-to-use activities that will reboot--and transform--your classroom. Reading this book is like sitting in on a presentation from one of educational technology's best presenters. Eric's writing reminds me of his sessions: comfortable and accessible for new tech users, while still valuable for experienced users. Jake Miller, @JakeMillerTech, host of The Educational Duct Tape Podcast Control Alt Achieve provides both practical and pedagogical strategies that go way beyond simple technology integration. This is a great handbook for any teacher looking to go beyond the how-to and shift toward a learning transformation. Ken Shelton, kennethshelton.net In this book, Eric has created a powerful method for meaningfully integrating technology into teaching and learning. His unique way of crafting technology-rich experiences will allow anyone from a novice techie to an edtech expert the ability to control, alt, achieve! Michael Cohen, the Tech Rabbi, creativity instigator and author of Educated by Design

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Naming Chemical Compounds - Answers sodium bromide calcium oxide lithium sulfide magnesium bromide

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AP CHEMISTRY SUMMER WORK NAMING & WRITING THE FORMULAS OF CHEMICAL COMPOUNDS Naming Simple Compounds Molecule or molecular compound is an assembly of two or more non-metal atoms tightly bonded together. A diatomic molecule is a molecule made from two atoms of the same element. The following seven elements form diatomic molecules ...

### *Chemical Formula Writing Worksheet*

Chemical Formula Writing Worksheet Determine the chemical formula for each cation and anion combination. Write your answers in each box. Set 1 (The combining power of silver is 1 and zinc is 2)

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Write the chemical formula for each of the following compounds.

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WRITE THE CHEMICAL FORMULA FOR EACH OF THE FOLLOWING: Barium sulfide 1) \_\_\_\_\_

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Download a free Chemical Formulas Worksheet template in PDF or Word format. Fill out and print the worksheet to practice writing chemical formulas and enhance your understanding of chemical compounds.

### **Worksheet #1: Writing and Balancing Formula Equations**

Worksheet #1: Writing and Balancing Formula Equations Step 1: Write each formula and balance each formula using SUBSCRIPTS. Step 2: Balance the overall equation using coefficients.

### Chemical Formula Writing Worksheet - West Linn ...

Write the formula for the ionic compound formed between calcium and bromine. Another approach to writing a balanced formula for a compound is to use the crisscross method. In this method, the numerical charge of each ion is crossed over and used as the subscript for the other ion. The signs of the numbers are dropped.

### **Microsoft Word - worksheet - writing chemical equations ...**

Writing Chemical Equations Part A - Translate all the formulaic equations to word equations.

## Chemical Names and Formulas Worksheet

Chemical Names and Formulas Worksheet Write the names of each of the following compounds: 6. NiSe 11. KOH 7. Fe(OH)<sub>2</sub> 12. CSe<sub>2</sub> 8. AgClO<sub>2</sub> 13. (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> 9. Be<sub>2</sub>O 14. Fe(OH)<sub>3</sub>

### *Chemical Formula Writing Worksheet | PDF - Scribd*

This document provides a chemical formula writing worksheet with instructions to determine the chemical formula for various cation and anion combinations, and to write the chemical formulas for 16 different compounds involving metals, nonmetals, and polyatomic ions. Students are to write their answers in the provided boxes for compounds that include copper, lithium, ...

## Chemical Formula Writing Worksheet: Ionic & Covalent

Learn to write chemical formulas for ionic and covalent compounds. Includes rules, examples, and practice exercises. Ideal for high school chemistry.

### Worksheet: Writing Chemical Formulas and Naming ...

Worksheet: Writing Chemical Formulas and Naming Compounds The table below contains chemical compound names and formulas. Fill in the missing formula or name for each compound.

## Writing chemical formulas and names remediation worksheet

Jan 4, 2021 · LiveWorksheets transforms your traditional printable worksheets into self-correcting interactive exercises that the students can do online and send to the teacher.

## Chemical Formula Writing Worksheet - studylib.net

Practice writing chemical formulas with this worksheet. Includes cation/anion table and additional practice problems.

## CHEMISTRY 103 Practice Sheet #4 Naming Compounds and ...

hh. H<sub>3</sub>PO<sub>4</sub> 2. Write formulas for the compounds below. Includes molecular and ionic compounds, polyatomic ions, acids, and transition metals. (Note: Not all instructors cover the same ions and some instructors skip transition metal compounds!)

## 16.2 Chemical Formulas - Mr. Payton's physical science class

You will practice writing chemical formulas in the following activity. What is a chemical formula? Chemical formulas have two important parts: chemical symbols for the elements in the compound and subscripts that tell how many atoms of each element are needed to form the compound.

### *Writing Chemical Formulas - HONORS CHEMISTRY*

Write the charge of the ion or polyatomic ion in the ionic charge box, then write the chemical formula.

## Naming Chemical Compounds Worksheet - My Chemistry ...

Naming Chemical Compounds - Answers sodium bromide calcium oxide lithium sulfide magnesium bromide

## Microsoft Word - AP Chemistry Summer Work - Naming

AP CHEMISTRY SUMMER WORK NAMING & WRITING THE FORMULAS OF CHEMICAL COMPOUNDS Naming Simple Compounds Molecule or molecular compound is an assembly ...

### Chemical Formula Writing Worksheet

Chemical Formula Writing Worksheet Determine the chemical formula for each cation and anion combination. Write your answers in each box. Set 1 (The combining power of silver is 1 and ...

### Chemical Formula Writing Worksheet - studylib.net

Practice writing chemical formulas for ionic compounds with this worksheet. Ideal for high school chemistry students.

### *Chemical Names and Formulas - Printable Worksheets*

Aug 3, 2018 · Here are printable chemistry worksheets in pdf format. These worksheets cover chemical names and formulas.

### *Worksheet: Formulas and Names*

Write the chemical formula for each of the following compounds.

### Microsoft Word - Worksheet Formulas.doc - Cerritos College

WRITE THE CHEMICAL FORMULA FOR EACH OF THE FOLLOWING: Barium sulfide 1) \_\_\_\_\_

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