

Naming Ionic Compounds Worksheet

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Part 1: Building a Foundation
What is the suffix used for naming anions in binary ionic compounds?
Hint: Think about the common endings for anions.
○ -ate ○ -ide
·ite
○ -ous
Which of the following are characteristics of ionic compounds? (Select all that apply)
Hint: Consider the properties of ionic compounds.
A) Composed of metals and non-metals
B) Have high melting points
C) Conduct electricity in solid state
D) Form crystal lattice structures
Explain why ionic compounds are electrically neutral.
Hint: Consider the charges of cations and anions.

List two examples of polyatomic ions and their charges.



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Hint: Think of common polyatomic ions.
1. Example 1
2. Example 2
Part 2: Comprehension and Application
Which of the following correctly describes the naming of a compound with a transition metal?
Hint: Consider how transition metals are named in compounds.
○ A) The metal is named first with its charge in Roman numerals.
B) The non-metal is named first with its charge in Roman numerals.
C) The metal is named with the suffix "-ide."
O) The non-metal is named with the suffix "-ate."
When naming ionic compounds, which of the following statements are true? (Select all that apply)
Hint: Think about the rules for naming ionic compounds.
A) The cation is always named first.
B) Anions are named using the suffix "-ate."
C) The formula must reflect a neutral charge.
D) Transition metals do not require charge specification.
Describe the process of naming an ionic compound containing a polyatomic ion.
Hint: Consider the steps involved in naming.
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What is the correct name for the compound with the formula Na2SO4?
Hint: Think about the names of the ions involved.
○ A) Sodium Sulfide
○ B) Sodium Sulfate
○ C) Sodium Sulfite
O) Sodium Sulfate(IV)
Which of the following formulas correctly represent ionic compounds? (Select all that apply)
Hint: Consider the formulas of common ionic compounds.
A) CaCl2
☐ B) Na2O
C) Mg2S
☐ D) Al2O3
Write the chemical formula for the compound formed between calcium ions and nitrate ions.
Hint: Consider the charges of calcium and nitrate ions.
Part 3: Analysis, Evaluation, and Creation
If a compound is formed between Fe3+ and Cl-, what is the correct formula?
Hint: Think about the charges of the ions involved.
A) FeCI
○ B) FeCl2 ○ C) FeCl3
○ D) Fe3Cl

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(Select all that apply)
Hint: Consider the properties of ionic compounds.
A) The total positive charge must equal the total negative charge.
☐ B) Ionic compounds can have a net charge.
C) lonic compounds are typically soluble in water.
D) The formula of an ionic compound reflects the ratio of ions.
Explain how the charge of a transition metal affects the naming and formula of an ionic compound.
Hint: Consider the role of Roman numerals in naming.
Which of the following scenarios best illustrates the importance of charge balance in ionic compounds?
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Propose a method for teaching the naming of ionic compounds to students who are new to chemistry. Include at least two teaching strategies.



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Hint: Think about effective teaching methods.	
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