

Names And Formulas For Ionic Compounds Worksheet

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Part 1: Building a Foundation

High melting points

Disclaimer: The names and formulas for ionic compounds worksheet was generated with the help of StudyBlaze Al. Please be aware that Al can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

What is the overall charge of an ionic compound? Hint: Consider the balance of positive and negative charges. Positive Negative Neutral Variable What is the overall charge of an ionic compound? Hint: Consider the nature of ionic compounds. A) Positive OB) Negative OC) Neutral O) Variable What is the overall charge of an ionic compound? Hint: Consider the nature of ionic compounds. ○ A) Positive B) Negative C) Neutral O) Variable Which of the following are characteristics of ionic compounds? (Select all that apply) Hint: Think about the physical properties of ionic compounds.



 □ Conduct electricity when dissolved in water □ Low boiling points □ Usually gases at room temperature
Which of the following are characteristics of ionic compounds? (Select all that apply)
Hint: Think about the properties of ionic compounds.
A) High melting points
B) Conduct electricity when dissolved in water
□ C) Low boiling points□ D) Usually gases at room temperature
Which of the following are characteristics of ionic compounds? (Select all that apply)
Hint: Think about the properties of ionic compounds.
☐ A) High melting points
B) Conduct electricity when dissolved in water
C) Low boiling pointsD) Usually gases at room temperature
Define a cation and an an ion. Provide an example of each.
Hint: Consider the charge and the type of element.

Define a cation and an an ion. Provide an example of each.

Hint: Consider the definitions and examples of charged particles.



Define a cation and an an ion. Provide an example of each.	
Hint: Consider the charge of the ions.	
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Which of the following endings is typically used for the names of single-element anions?	
Hint: Consider the naming conventions for ions.	
○ -ate	
○ -ite	
○ -ide	
O -ous	
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Hint: Consider the naming conventions for ions.	
○ A) -ate	
O B) -ite	
C) -ide	
O) -ous	
Which of the following endings is typically used for the names of single-element anions?	
Hint: Consider the naming conventions in chemistry.	
○ A) -ate	
○ B) -ite	



○ C) -ide○ D) -ous
Part 2: Application and Analysis
What is the correct formula for calcium nitrate?
Hint: Consider the charges of calcium and nitrate ions.
\bigcirc CaNO ₃ \bigcirc Ca(NO ₃) ₂ \bigcirc Ca ₂ NO ₃ \bigcirc Ca ₃ (NO ₃) ₂
What is the correct formula for calcium nitrate?
Hint: Consider the components of calcium and nitrate.
 ○ A) CaNO₃ ○ B) Ca(NO₃)₂ ○ C) Ca₂NO₃ ○ D) Ca₃(NO₃)₂
What is the correct formula for calcium nitrate?
Hint: Consider the charges of the ions involved.
\bigcirc A) CaNO ₃ \bigcirc B) Ca(NO ₃) ₂ \bigcirc C) Ca ₂ NO ₃ \bigcirc D) Ca ₃ (NO ₃) ₂
Which of the following are correctly balanced formulas for ionic compounds? (Select all that apply)
Hint: Check the ratios of ions in each formula.
 Na₂O MgCl Al₂O₃ K₂SO₄



Which of the following are correctly balanced formulas for ionic compounds? (Select all that apply)
Hint: Think about the charge balance in ionic compounds.
☐ A) Na¸O
☐ B) MgCl
\square C) Al ₂ O ₃
\square D) K_2SO_4
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Hint: Think about the charge balance in ionic compounds.
☐ A) Na¸O
☐ B) MgCl
\square C) Al ₂ O ₃
\square D) K_2SO_4
Write the formula for an ionic compound formed between aluminum and sulfate ions.
Hint: Consider the charges of aluminum and sulfate ions.
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Write the formula for an ionic compound formed between aluminum and sulfate ions.		
Hint: Consider the charges of aluminum and sulfate.		
Which of the following best explains why ionic compounds have high melting points?		
Hint: Think about the forces that hold ionic compounds together.		
○ They are composed of large molecules.		
They have strong electrostatic forces between ions.		
They contain metals with high atomic numbers.They are held together by weak Van der Waals forces.		
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O) They are held together by weak Van der Waals forces.		
Discuss the role of electron transfer in the formation of ionic bonds.		

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Hint: Consider how ions are formed from atoms.



Discuss the role of electron transfer in the formation of ionic bonds	s.
lint: Consider how electrons move between atoms.	
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Discuss the role of electron transfer in the formation of ionic bonds	s.
lint: Think about how ions are formed.	
Part 3: Evaluation and Creation	
Which of the following scenarios would most likely result in the for	mation of an ionic compound?
lint: Think about the types of elements involved in the reaction.	
A metal reacting with a nonmetal	
Two nonmetals reacting	
A metal reacting with another metal	

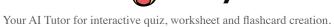
A noble gas reacting with a nonmetal
Which of the following scenarios would most likely result in the formation of an ionic compound?
Hint: Think about the types of elements involved in reactions.
○ A) A metal reacting with a nonmetal
○ B) Two nonmetals reacting
C) A metal reacting with another metal
OD) A noble gas reacting with a nonmetal
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Hint: Consider the types of elements involved in the reactions.
○ A) A metal reacting with a nonmetal
○ B) Two nonmetals reacting
C) A metal reacting with another metal
OD) A noble gas reacting with a nonmetal
Evaluate the following statements and identify which are true about ionic compounds. (Select all
that apply)
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that apply) Hint: Consider the properties of ionic compounds.
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Hint: Think about the properties of ionic compounds.

that apply)



A) They are usually soluble in water.	
B) They can conduct electricity in solid form.	
C) They are formed by the sharing of electrons.	
D) They have high melting and boiling points.	
Propose a real-world application for ionic compound suitable for this application.	ds and explain how their properties make them
Hint: Consider industries that utilize ionic compounds.	
Propose a real-world application for ionic compound suitable for this application.	ds and explain how their properties make them
Hint: Think about the uses of ionic compounds in industry or	daily life.
Propose a real-world application for ionic compound suitable for this application.	ds and explain how their properties make them
Hint: Think about industries that utilize ionic compounds.	





lint: Consider the various roles ionic compounds play in daily products.	
eflect on what you have learned about ionic compounds. How	do their properties influence their
se in everyday life? Provide examples to support your answer.	do their properties influence their
int: Consider the practical implications of ionic compounds.	
int. Consider the practical implications of fortic compounds.	
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lint: Think about the role of ionic compounds in daily products.	
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