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Name	Date	Class
Atoms and Bonding	 Guided Reading and Study 	
lonic Bonds		
	v an atom becomes electrically charg of bonds formed by the attraction of o	
Use Target Reading	3 Skills	
	Figure 9. Then write two questions the rganizer below. As you read, answer	
	Formation of an Ionic Bond	
Q. What is an ionic b	oond?	
A .		
Q.		
Α.		
lons and Ionic Bon		. 11 1 ()
1. An atom or group	of atoms that has an electric char 	ge is called a(n)
2. What happens to a	n atom when it loses an electron	?
3. What happens to a	n atom when it gains an electron	n?

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Atoms and Bonding	Guided Reading and S	tudy		
onic Bonds (continu	red)			
4. Ions that are made of	more than one atom are	e called		
5. Use the table in the to	extbook to complete the	table below.		
	Ions and Their Ch	narges		
Name	Charge	Symbol or Formula		
Sodium	a.	b.		
Magnesium	c.	d.		
Chloride	e.	f.		
Sulfate	g.	h.		
of protons, how man	-	? Compared to the number onate ion have? (<i>Hint:</i> You ount all the particles.)		
	o a sodium atom and a ch transferred from one to t	nlorine atom become when the other?		
8. What is an ionic bone	d?			
9. Give an example from the table above of two ions that can form an ionic bond.				

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Ato	Atoms and Bonding • Guided Reading	and Study			
Ch	Chemical Formulas and Names				
10.	10. A(n) is a content the ratio of elements in a compound.	is a combination of symbols that shows ments in a compound.			
11.	11. Is the following sentence true or false? ions come together in a way that balar				
12.	12. In the chemical formula for magnesium number "2" called, and what does it to		Cl ₂), what is the		
_				_	
- 13.	13. Is the following sentence true or false? of the negative ion comes first.			_	
14. -	14. When does the end of a name of a neg	ative ion end in	-ide?		
_					
Pro	Properties of Ionic Compounds				
15.	15. What are three characteristic propertie a.	•	ounds?		
	b			_	
	c			_	
16.	16. An orderly, three-dimensional arrange	ment formed by	ions is called a(n)		
17.	17. In an ionic compound, which ions are	attracted to each	h other?		
_				_	
_				_	

Nar	ne		Date		Class
Ato	ms and Bonding	 Guided F 	Reading and S	tudy	
loı	nic Bonds (cont	inued)			
18.	Why do ionic com	pounds have	e high melting	points?	
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_					
19.	9. At room temperature, ionic bonds are strong enough to cause all ionic compounds to be				e all ionic
20. Why do ionic compounds conduct electricity wel dissolved in water?			well when they	are	
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_					
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