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Name		Date	Class
Atoms a	nd Bonding	Guided Reading and Study	
lonic	<b>Bonds</b>		
		o an atom becomes electrically chargory of bonds formed by the attraction of e	
Use Tar	get Reading	g Skills	
		Figure 17. Then write two questions ic organizer below. As you read, ans	
		Formation of an Ionic Bond	
Q.			
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<b>A</b> .			
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	d Ionic Bon		as is called a(n)
1. An a	tom or group o	of atoms that has an electric char 	ge is called a(n)
<b>2.</b> Wha	t happens to a	n atom when it loses an electron?	?
<b>3.</b> Wha	t happens to a	n atom when it gains an electron	?

Name	Date	Class
Atoms and Bonding	<ul> <li>Guided Reading and Stu</li> </ul>	udy
lonic Bonds (cont	inued)	
4. Ions that are made	e of more than one atom are o	called
<b>5.</b> Use the table in th	e textbook to complete the ta	able below.
	Ions and Their Cha	nrges
Name	Charge	Symbol or Formula
Sodium	a.	b.
Magnesium	c.	d.
Chloride	e.	f.
Sulfate	g.	h.
	number of protons, how man $0_3^{2-}$ ) have? What is its charge	
	s do a sodium atom and a chlo is transferred from one to th	
8. What is an ionic b	ond?	
9. What causes ionic	bonds to form?	

Nai	Jame	Date	Class		
Ato	toms and Bonding • Guide	d Reading and Study	/		
Ch	hemical Formulas and Na	ames			
10.	<b>0.</b> A(n) the ratio of elements in a co	is a combination mpound.	of symbols that shows		
11.	O	entence true or false? When ionic compounds form, the er in a way that balances out the charges on the ions.			
1 <b>2.</b> _	2. In the chemical formula for number "2" called, and wha		(MgCl <sub>2</sub> ), what is the		
-					
- 13.	3. Is the following sentence true of the negative ion comes fi				
14.	4. When does the end of a nar	ne of a negative ion er	nd in -ide?		
-					
Pro	roperties of Ionic Compe	ounds			
	<ol><li>What are three characteristi</li><li>a.</li></ol>	c properties of ionic c	ompounds?		
	b				
	c				
16.	6. An orderly, three-dimension	nal arrangement forme	ed by ions is called a(n)		
17.	7. In an ionic compound, which	ch ions are attracted to	each other?		
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Nar	ne Date Class				
Ato	ms and Bonding • Guided Reading and Study				
loı	nic Bonds (continued)				
18.	Why do ionic compounds have high melting points?				
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19.	9. At room temperature, ionic bonds are strong enough to cause all ionic compounds to be				
20.	Why do ionic compounds conduct electricity well when they are dissolved in water?				
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