Nan	me	Class	Date			
Directed Reading B continued						
18.	. The first energy level of any ato electrons.	om can hold only	<i>I</i>			
19.	Why is it uncommon for noble gases to form chemical bonds?					
	Which is more likely to form be atom with fewer than 8 valence		ith 8 valence electrons	or an		
	. How can atoms with fewer that energy level? Use either sulfur			st		

Name	Class	Date
Skills Worksheet		
<b>Directed Readin</b>	g B	
	<u> </u>	
Section: Ionic Bonds (	рр. 230–235)	
1. A chemical bond that form	s when electrons are t	transferred from one atom
to another is a(n)	·	
2. Charged particles that form	n when atoms gain or	lose electrons
are called		
<b>3.</b> A transfer of electrons bet	ween atoms changes t	he number of electrons in an
atom, but the number of _		stays the same.
<b>4.</b> Why is an atom neutral?		
5. Why are ions charged part	icies and thus no longe	er neutrai:
FORMING POSITIVE IONS		
<ul><li>6. When an atom lose</li><li>a. positively charge</li><li>b. neutral.</li><li>c. negatively charge</li><li>d. uncharged.</li></ul>	ed.	ionic bond, it becomes
7. Most metals have few		and form positive ions.
8. If an aluminum atom loses	its three valence elect	trons to another atom,
the aluminum atom becom	es an aluminum	·
9. An aluminum ion has a cha	arge of	<del>,</del>
<b>10.</b> The chemical symbol for a	1	

Name	Class	Date
Directed Reading B continued		
11. Pulling electrons away from 12. Where does the energy need from?		
FORMING NEGATIVE IONS		
<ul><li>13. Some atoms gain elect</li><li>a. positive charge.</li><li>b. negative charge.</li><li>c. neutral charge.</li><li>d. chemical charge.</li></ul>	etrons during chemica	al changes and acquire a(n)
14. The symbol for the oxogen atom gain to l a. 0 b. 1 c. 2 d. 3		
<b>15.</b> What ending is used f <b>a.</b> -ion <b>b.</b> -ade <b>c.</b> -ide <b>d.</b> -ite	or the names of nega	tive ions?
<b>16.</b> Atoms of Group	eleme	nts give off the most
energy when they gain an ele 17. When is energy given off by a		
18. What conditions are required nonmetal?	l for an ionic bond to	form between a metal and a

Name	Class	Date			
Directed Reading B continued					
FORMING IONIC COMPOUNDS					
	does the compound formed by an ionic bond have a neutral charge even gh the ions that bond are charged?				
IONIC COMPOUNDS					
<b>20.</b> When ions bond, they form a	repeating three-dir	mensional pattern called			
a(n)					
<b>21.</b> List three properties of ionic	compounds.				