Name		Class		Date	
Skills Workshe	eet				
Directe	ed Re	ading	В	(use	with pages 8 -11)
Section: Ionic Be FORMING IONIC Write the letter o	BONDS	nswer for each	question in the b	lank provide	d.
				•	
1. What do you call a bond that forms when electrons are transferred from one atom to a a. compound bond b. ionic bond c. crystal bond d. atomic bond					
Charged Particle	s				
2. What are c	harged partic	les that form when	n atoms gain or lose e	electrons?	
a. ions	b. atomic ion	s c. bonds	d. particle atoms		
3. Ions are charged	particles beca	use the number o	f		
(positive part	icles) no long	er equals the num	ber of		
(negative particles), because the number of has changed.					
FORMING POSITIVE IONS					
FURMING PUSH	IVE IONS				
4. What char	ge does a sodi	ium ion have?			
a. 1-	b. 1+	c. 2-	d. 2-		
5. What is the	e chemical sy	mbol for a sodium	ion?		
a. S ⁺	$b.S^{-}$	c.Na ⁺ d.N	Ja ⁻		
Read the words in the box. Read the sentences. <u>Fill in each blank</u> with the word or					
phrase that best	completes	the sentence.			
positive ions	energy	negative ion	s valence ele	ctrons	ion
6. If a sodium a	tom loses its o	only valence elect	ron, it becomes a(n)		
7. For electrons to pull away from atoms, is needed.					
8. When atoms lose electrons in an ionic bond, they become					
9. Most metals have few and form positive ions.					
10. The energy needed to take electrons from metals comes from the formation of					

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_____Class _____ Date _____

Directed Reading B continued

FORMING NEGATIVE IONS

11. When atoms gain electrons during chemical changes, what charge do they have? a. positive charge b. negative charge c. neutral charge d. electric charge 12. The symbol for oxide is O^{2} . How many electrons did the oxygen atom gain? d. 3 a. 0 b. 1 c. 2 **Nonmetal Atoms Gain Electrons** 13. What ending is used for the names of negative ions? a. -*ion* b. –ade c.-ide d. -ite The Energy of Gaining Electrons 14. What do atoms of group 17 elements give off when they gain electrons? b. protons c. bonds d. charges a. energy **IONIC COMPOUNDS** 15. What is the regular pattern that forms when ions bond? d. ionic bond a. compound b. chemical compound c. crystal lattice 16. Which of the following is a property of a crystal lattice?

a. low melting point b. high melting point c. low boiling point d. malleability