Name	Date	Class
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CHAPTER 7

Ionic Compounds and Metals

Section 7.1 Ion Formation

In your textbook, read about chemical bonds and formation of ions.

Use each of the terms below just once to complete the passage.

chemical t	ond	electrons	energy level	ions	noble gases	
nucleus	22- dominanto -	octet	pseudo-noble gas fo	rmations	valence	
The force	that h	olds two atoms together is ca				
Such an attac	hmen	t may form by the attraction of	of the positively charged	•		
(2)		of one atom for	the negatively charged			
(3)		of another atom	or by the attraction of	charged atoms	k!sh	
(4)		The attractions	may also involve	charged atoms,	, which are called	
(5)		electrons, which are	e the electrons in the out	ermost		
(6)		. The (7)	are a famil	v of elements	shoet b	
little tendency	to rea	act. Most of these elements ha	ave a set of eight outern	oct electrons	mat nave very	
stable (8)		. The relative	elv stable electron structi	res developed	which is called a	
electrons in ce	rtain	elements of groups 3, 4, 13, a	and 14 are called (9)	ires developed	by loss of	
		below, write true or false.	(,)		•	i i
10. A positively charged ion is called an anion.						
11. Elements in group 1 lose their one valence electron, forming an ion with a 1+ charge.						
	12	Elements tend to react so the	nat they acquire the elect	ron structure o	of a halogen	
	13.	A sodium atom tends to lose	e one electron when it re	eacts.	a narogen.	
		The electron structure of a z formation.			do- noble gas	
	15.	A Cl ⁻ ion is an example of a	cation.			
		The ending -ide is used to de				
		Nonmetals form a stable out becoming anions.		n by losing ele	ctrons and	



IONIC COMPOUNDS (Continued)

Potassium nitrie	FeO			
Calcium chlorate	NaHCO ₃			
Iron(Ⅱ) hydroxide	Caj.			
Cornelliodar	NH ₄ Br			
Aluminum sulfite	BaCl ₂			
Magnesium oxide	FePO ₄			
Lead(II) iodide	Ag ₂ SO ₄			
Socium hypochlorite	Co(OH) ₂			
Lithium hydrogen sulfite	ин•ио-			
monium carbonate	Cu2O			
Mercury(I) chloride	K ₃ PO ₄			
Aluminum oxide	(NH ₄) ₂ HPO ₄			
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