## Ionic vs. Covalent Bonds

Nonmetals chemically bond by sharing electrons. The bond is called a **covalent bond**. When an active metal and a nonmetal bond, the active metal transfers one or more electrons to the nonmetal. This bond is called an **ionic bond**. Ionic compounds (except for bases) are also called **salts**.

Class	sify each o	compound as <i>ionic</i> or	covalent.		
1.	CaCl <sub>2</sub>		_ 14.	$N_2$	
2.	$CO_2$		_ 15.	NaI	
3.	H <sub>2</sub> O		_ 16.	NO <sub>2</sub>	
4.	BaCl <sub>2</sub>		_ 17.	$Al_2O_3$	
5.	O <sub>2</sub>		_ 18.	FeCl <sub>3</sub>	
6.	NaF		_ 19.	P <sub>2</sub> O <sub>5</sub>	
7.	NaS		_ 20.	$N_2O_3$	
8.	S <sub>8</sub>		_ 21.	$H_2$	
٩.	SO <sub>3</sub>		_ 22.	$K_2O$	
10.	LiBr		_ 23.	KI	
11.	MgO		_ 24.	$P_{4}$	
12.			_ 25.	$CH_{_{\!$	
13.	HCI		_ 26.	NaCl	
		ctron shell diagram of und calcium oxide, Co			ctron shell diagram of the mpound methane, CH <sub>4</sub> .

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