

Bonding and Ionic Naming Worksheet		
#	Question	Answer
1	What are the electrons in the outer shell of an atom that form the chemical bonds called?	
2	What are the three main types of bonds?	
3	Using the terms: metal and nonmetal, describe what types of atoms make up each of the three types of bonds mentioned above.	
4	What is the name of the type of chemical bond that is formed when two electrons are shared?	
5	What is different between an ionic bond and the bond in the above question?	
6	How many valence electrons are there in carbon? Where do you look on the periodic table to find out?	
Label the following as ionic, or covalent, compounds/molecules		
7	a) NaCl	e) CCl ₄
	b) CO ₂	f) AlBr ₃
	c) K ₃ P	g) H ₂ O
	d) HBr	
8	How many Carbon atoms are in CO ₂ ? How many oxygen atoms are in CO ₂ ?	
9	How many Nitrogen atoms are in (NH ₄) ₂ S? How many Hydrogen atoms? How many Sulfur atoms	
10	Explain how to name binary ionic compounds	
11	Explain how to name polyatomic ionic compounds	
Name the following ionic compounds:		
12	a) LiOH	f) Al ₂ (SO ₄) ₃
	b) Na ₂ SO ₄	g) HgO
	c) SbCl ₃	h) Fe ₂ S ₃
	d) Al(OH) ₃	i) Pb(NO ₃) ₂
	e) Sb(NO ₃) ₃	j) K ₂ SO ₃

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