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In these compounds, which are formed between (metals, nonmetals, metals											
and nonmetals), the atoms bond together to form (molecules, ions). In molecular											
compounds, are used to show the number of atoms of each											
element per molecule. Finish the chart below, listing the prefixes and the number											
of atoms each represents:											
Prefix	mono-							octa-			
# of atoms			3			6					
Write the formula of these molecular compounds:											
carbon tetrachloride sulfur trioxide											
dinitrogen monoxide dinitrogen trioxide											
dinitrogen pentoxide					silicon dioxide						
phosphorus trichloride					_ carbon disulfide						
tetraphosphorus decoxide					carbon monoxide						
Organic Compounds—A Special Case of Molecular Compounds											
Organic compounds are now defined as compounds that contain the element											
between each pair of											
carbon atoms in an organic compound will determine whether the compound is											
saturated or unsaturated. The bonds between the carbon atoms in $a(n)$											
compound are single bonds, but in a(n)											
compound, the bonds between neighboring carbon atoms are or											
bonds. The organic compounds containing only hydrogen and											
zame and and											

Worksheet: Molecular Compounds

Name ____

carbon are called			C_nH_{2n} +2 is the general form for					or the	:			
series of hydrocarbons. The names of this series are composed												
of a, which denotes the number of carbon atoms present, and the												
suffix This series of hydrocarbons has only single bonds, and												
so, is said to be C_nH_{2n} is the general form for the class of												
hydrocarbons referred to as the Each member of this series												
has a pair of carbon atoms connected by a bond, and so, is said												
to be	e Again,				are used to denote the number of							
carbon atoms present in the molecule, and all members of this series end in the												
suffix												
Finish the chart below, filling in the missing prefixes and the number of carbon atoms each represents:												
Prefix		eth-								dec-		
# of Carbon Atoms	1				5							
What is the formula for the following hydrocarbons?												
butene				pro	propane							
methane	methane					hexane						
nonene				eth	iene							