Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 5C – Molar Mass (*representative elements/compounds*) 20 Points

Calculate the average molar mass for the following elements/compounds/molecules

Element	Molar Mass
Lithium (*Li*)	
Copper (*Cu*)	
Lead (*Pb*)	207.2 g/mol

Element	Molar Mass
Carbon (*C*)	
Phosphorous (*P*)	
Chlorine (*Cl*)	

For the following ionic compounds or covalent molecules, calculate the molar mass

Nitrogen Trihydride (NH_3)		
Element	#	Molar Mass
Nitrogen (N)		
Hydrogen (H)		
Nitrogen Trihydride (NH_3)		

Carbon Tetrachloride (CCl_4)		
Element	#	Molar Mass
Carbon (C)		
Chlorine (Cl)		
Carbon Tetrachloride (CCl_4)		

Sodium Fluoride (NaF)		
Element	#	Molar Mass
Sodium (Na)		
Flourine (F)		
Sodium Fluoride (NaF)		

Aluminum Oxide (Al_2O_3)		
Element	#	Molar Mass
Aluminum (Al)		
Oxygen (O)		
Aluminum Oxide (Al_2O_3)		

Lead(IV) Nitride (Pb_3N_4) [A_xB_y]		
Element	# (x or y)	Molar Mass (Periodic Table)
Lead (Pb)	3	x 207.2 g/mol
Nitrogen (N)	4	x 14.01 g/mol
Lead (IV) Nitride (Pb_3N_4)		677.64 g/mol

Tungsten(VI) Sulfide (WS_3)		
Element	#	Molar Mass
Tungsten (W)		
Sulfur (S)		
Tungsten(VI) Sulfide (WS_3)		