AP Biology - Identifying Intermolecular Forces

Name = _____

Indicate the **intermolecular &/or intramolecular force(s)** that can exist between the following particles and where they are located.

	London Dispersion Forces *(form between multiple copies of this/ these substance(s) in an area)* **Identify **between** which substances these form.*	**Dipole - Induced Dipole Forces** *(form between multiple copies of this/these substance(s) in an area)* **Identify **between** which substances these form.*	**Dipole - Dipole Forces** *(form between multiple copies of this/ these substance(s) in an area)* **Identify **between** which substances these form.*	**Hydrogen Bonds:** Special Dipole-Dipole Forces *(form between multiple copies of this/these substance(s) in an area)* **Identify **between** which substances these form.*	**Ion - Dipole Forces** *(form between multiple copies of this/these substance(s) in an area)* **Identify **between** which substances these form.*	**Ionic Bonds Form Between the Ions Present in this/these Substance(s)** **Identify **between** which substances these form.*	**Nonpolar Covalent Bonds** *(Identify which substance this applies to if more than 2 substances exist)* **Identify **between** which atoms these form.*	**Polar Covalent Bonds** *(Identify which substance this applies to if more than 2 substances exist)* **Identify **between** which atoms these form.*
CaOH & H_2O			**X** (between H_2O & H_2O;)	**X** (between H_2O & H_2O;)	**X** (between Ca^{2+} & H_2O; OH^- & H_2O;)	**X** (between Ca^{2+} & OH^-)		**X** (in the H_2O between the H and the O)
O_2								
HCl (when **not** dissociated)								
C_3H_8								
CO_2								
NH_3								
HF & H_2O (when **not** dissociated)								
NaCl (**not** in water)								
H_2O & CH_4								
KOH (when **placed in** water)								
NO								
C_2H_5OH								