Analysis Activity

INTERMOLECULAR FORCES



Directions:	Name:
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- 1. Log into Collisions and navigate to the Intermolecular Forces Game.
- 2. Play the Tutorial Levels, if you haven't done so already.
- 3. Exit the levels and enter the Intermolecular Forces Sandbox.



4. Build each compound listed in the table below and record the requested information.

STEP 1: Build each molecule in the Intermolecular Forces Sandbox and draw the Lewis Structure below.

	HCI	CH₃F	H_2	CH₂O	O ₂
Molecular Name	hydrochloric acid				
Lewis Structure (Include the partial charge around the molecule.)	δ+ H:Cl: δ-				

STEP 2: Determine the information below.

	HCI	CH₃F	H ₂	CH ₂ O	O_2
Molecular Polarity (polar or non-polar)	polar				
Type of IMF	Dipole-Dipole				

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STEP 1: Build the molecule in the Intermolecular Forces Sandbox and draw the Lewis Structure below.

	CH ₄	CO ₂	CH ₂ Cl ₂	HF	N ₂
Molecular Name					
Lewis Structure					
(Include the partial					
charge around the molecule.)					

STEP 2: Determine the information below.

	CH ₄	CO ₂	CH ₂ Cl ₂	HF	N_2
Molecular Polarity (polar or non-polar)					
Type of IMF					

Analysis Questions:

- 1. List the IMF types from weakest to strongest.
- 2. How does molecular polarity influence the type of IMF between particles?