

## Molecule Polarity Simulation

Visit the [Molecule Polarity simulator](#).

1. Select the "Real Molecules" simulation option (click on the "Real Molecules Only in Java" link; you will then be prompted to download the simulation). Once you download the simulation to your device, open the simulation and begin the activity.

### Set 1: HF vs. H<sub>2</sub>

For each molecule be sure to have the "Atom Labels" and "Atom Electronegativities" button selected. Use the "Bond Dipoles" and "Molecular Dipoles" buttons to determine if these dipoles are present when instructed below.

- Use the simulation to determine if bond dipoles are present on each molecule.
- Use the simulation to determine if a molecular dipole is present on each molecule.
- Use the simulation "Electrostatic Potential" option to map the electron density on each molecule.

Molecule	Electronegativity Difference between atoms	Bond Dipoles Present? (yes or no)	Molecular Dipole Present? (yes or no)	Sketch/describe the Electrostatic Potential
H <sub>2</sub>	$2.1 - 2.1 = 0$	no	no	
HF	$4.0 - 2.1 = 1.9$	yes	yes	

**Question 1:** Using what you learned from Set 1, predict what properties of the molecule determine if a molecular dipole is present or not.

Molecules with non-polar bonds will be non-polar. Molecules with polar bonds might be polar.

**Set 2:** Repeat the data collection carried out in Set 1 for each set molecules below. Be sure to have the "Atom Labels" "Atom Electronegativities" button selected. Use the "Bond Dipoles" and "Molecular Dipoles" buttons to determine if these dipoles are present when instructed below.

- Use the simulation to determine if bond dipoles are present on each molecule.
- Use the simulation to determine if a molecular dipole is present on each molecule.
- Use the simulation "Electrostatic Potential" option to map the electron density on each molecule.

# Phet Molecular Polarity Simulation Answers

**Wenbin Ji**



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