

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. H₂

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 ₂	$2.1 - 2.1 = 0$	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 Simulation Molecule Polarity Lab Answers

AW Chickering



Phet Simulation Molecule Polarity Lab Answers:

Decoding **Phet Simulation Molecule Polarity Lab Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Phet Simulation Molecule Polarity Lab Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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