

ACTIVITY: Molecular Polarity Computer Simulation (PhET)

Go to: <https://www.phet.org> Click on the arrow, DOWNLOAD, OPEN and RUN the MOLECULE POLARITY program. Or google "phet molecule polarity" to find the simulation.

Introduction:

In this atomic level simulation, you will investigate how atoms' **electronegativity** values affect the bonds they produce. When two atoms form a covalent bond, a pair of electrons is shared between atoms. **Electronegativity** is a measure of a single atom's ability to attract electrons shared in that bond. In this lab you will work at your own pace, to answer a number of questions. To begin, from what you've already learned about the protons and electrons in an atom, what would cause an atom to have a **high** electronegativity value?

Why might an atom have a **low** electronegativity value?

Procedure:

Two Atoms

- ☛ Turn on (check) all view options. ~~drag~~ drag the molecule with your mouse.
- ☛ Take your time and investigate how the binary compound's bond behaves when the atom's electronegativity and orientation are changed. **Do not rush through this step.**

Describe the bond formed between two atoms with **similar, low** electronegativities.

Describe the bond formed between two atoms with **similar, high** electronegativities.

Describe the bond formed between two atoms with **very different** electronegativities.

Describe (in your own words) what is meant by **partial charges**, δ^- and δ^+ .

δ^- represents: _____

δ^+ represents: _____

What happens when the electric field is applied to a very polar molecule?

Why do you think this is? _____

View

- Bond Order **40%**
- Partial Charges
- Bond Charge

Surface

- None
- Electrostatic Potential
- Electron Density

Electric Field

On Off



Phet Simulation Molecule Polarity Lab Answers

S Ashworth



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