

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

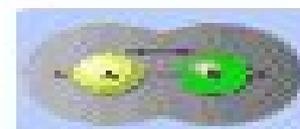
- Bond Order **OFF**
- Partial Charges
- Bond Charges

Structure

- VSEPR
- Electrostatic Potential
- Electron Density

Electric Field

ON OFF



Phet Simulation Molecule Polarity Lab Answers

M Woodhall



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web algebraic number theory studies the arithmetic of algebraic number fields the ring of integers in the number field the ideals and units in the ring of integers the extent to which unique factorization holds and so on

algebraic number theory springerlink - May 04 2023

web authors frazer jarvis provides a self contained and easy to read introduction to algebraic number theory with minimal algebraic prerequisites introduces the theory of ideals in a historical context through the study of the failure of unique

factorisation in number fields

algebraic number theory - Mar 22 2022

web a standard course in algebraic number theory discusses the proofs of the main results on integral bases discriminants dedekind rings class groups dirichlet s unit theorem etc in this semester i will instead concentrate on quadratic extensions of the rationals and of the rational function fields and introduce elliptic curves

number theory i mathematics mit opencourseware - Jun 05 2023

web course description this is the first semester of a one year graduate course in number theory covering standard topics in algebraic and analytic number theory at various points in the course we will make reference to material from other branches of mathematics including topology complex analysis representation theory and algebraic

daniel a marcus number fields university of toronto - Feb 18 2022

web zahlbericht namely lectures on the theory of algebraic numbers by erich hecke 5 this is the book from which i learned the subject although there are no exercises in it to mention andré weil again to improve on hecke in a treatise along classical lines of the theory of algebraic numbers would be a futile and impossible task