

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

Surface

- None
- Electrostatic Potential
- Electron Density

Electric Field

OFF ON



Phet Simulation Molecule Polarity Lab Answers

Lei Huang



Phet Simulation Molecule Polarity Lab Answers:

Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-10-11 As teaching strategies continue to change and evolve and technology use in classrooms continues to increase it is imperative that their impact on student learning is monitored and assessed New practices are being developed to enhance students participation especially in their own assessment be it through peer review reflective assessment the introduction of new technologies or other novel solutions Educators must remain up to date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel Learning and Performance Assessment Concepts Methodologies Tools and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance based assessment techniques and applications within educational settings Highlighting a range of topics such as learning outcomes assessment design and peer assessment this multi volume book is ideally designed for educators administrative officials principals deans instructional designers school boards academicians researchers and education students seeking coverage on an educator s role in evaluation design and analyses of evaluation methods and outcomes [Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education](#) Vu, Phu, Fredrickson, Scott, Moore, Carl, 2016-12-28 The integration of technology has become an integral part of the educational environment By developing new methods of online learning students can be further aided in reaching goals and effectively solving problems The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies tools and innovations in online learning environments Featuring extensive coverage across a range of relevant perspectives and topics such as social constructivism collaborative learning and projects and virtual worlds this publication is ideally designed for academicians practitioners and researchers seeking current research on best methods to effectively incorporate technology into the learning environment

Unveiling the Magic of Words: A Overview of "**Phet Simulation Molecule Polarity Lab Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Phet Simulation Molecule Polarity Lab Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<https://py.bijouxmedusa.com/results/book-search/fetch.php/entrepreneurs%20%201202%20parenting%20tips%20guide%20for%20startups%20%20168%20parenting.pdf>

Table of Contents Phet Simulation Molecule Polarity Lab Answers

1. Understanding the eBook Phet Simulation Molecule Polarity Lab Answers
 - The Rise of Digital Reading Phet Simulation Molecule Polarity Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Phet Simulation Molecule Polarity Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Phet Simulation Molecule Polarity Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Phet Simulation Molecule Polarity Lab Answers
 - Personalized Recommendations
 - Phet Simulation Molecule Polarity Lab Answers User Reviews and Ratings

- Phet Simulation Molecule Polarity Lab Answers and Bestseller Lists
- 5. Accessing Phet Simulation Molecule Polarity Lab Answers Free and Paid eBooks
 - Phet Simulation Molecule Polarity Lab Answers Public Domain eBooks
 - Phet Simulation Molecule Polarity Lab Answers eBook Subscription Services
 - Phet Simulation Molecule Polarity Lab Answers Budget-Friendly Options
- 6. Navigating Phet Simulation Molecule Polarity Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Phet Simulation Molecule Polarity Lab Answers Compatibility with Devices
 - Phet Simulation Molecule Polarity Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Phet Simulation Molecule Polarity Lab Answers
 - Highlighting and Note-Taking Phet Simulation Molecule Polarity Lab Answers
 - Interactive Elements Phet Simulation Molecule Polarity Lab Answers
- 8. Staying Engaged with Phet Simulation Molecule Polarity Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Phet Simulation Molecule Polarity Lab Answers
- 9. Balancing eBooks and Physical Books Phet Simulation Molecule Polarity Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Phet Simulation Molecule Polarity Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Phet Simulation Molecule Polarity Lab Answers
 - Setting Reading Goals Phet Simulation Molecule Polarity Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Phet Simulation Molecule Polarity Lab Answers
 - Fact-Checking eBook Content of Phet Simulation Molecule Polarity Lab Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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