

Electrostatic Potential Lab

Name _____ Per _____

Circle the molecule below: Circle the ring carbon in the structure.

Part A: Three atom investigation

1. Click the "Keep the box" button adjacent to the three atoms and click the "Electrostatic Potential" button.
2. Change the electronegativity of **A** and **B** to the electronegativity of atom **B**. Observe the color, partial charges and bond structure. Write the following information: the electronegativity of atom B (use the top of the page) _____
 partial charges _____
 bond structure _____
3. Now put the electronegativity of A and B into the electronegativity of B and observe the results. Fill in the following information:
 - a. The polarity arrow points to the _____ electronegative atom.
 - b. The partial positive charge is always on the _____ electronegative atom.
 - c. The larger the electronegativity difference, the _____ the bond structure.

Part B: Three atom investigation

1. Change the electronegativity of atom A and the electronegativity of **B** to the electronegativity of atom **B**. Circle the bond dipole, molecular dipole and partial charges.
 - a. Draw the bond dipole on the Lewis dot diagram.
 - b. In words and color, describe what molecular dipole is in the diagram.
 - c. Draw the partial charge symbols on the Lewis dot diagram.
 - d. Circle the electronegative. Add other electronegative molecules for comparison.
2. Click the "Keep the box" button. Change the electronegativity of **A** and **B** to the electronegativity of atom **B**. Circle the bond dipole, molecular dipole and partial charges.
 - a. Draw the bond dipole on the Lewis dot diagram.
 - b. In words and color describe what molecular dipole is in the diagram.
 - c. Draw the partial charge symbols on the Lewis dot diagram.
 - d. Circle the electronegative. Add other electronegative molecules for comparison.



Molecular Polarity Phet Lab Answer

AW Rasmussen



Molecular Polarity Phet Lab Answer:

Microbiology Abstracts ,1976 *Scientific and Technical Aerospace Reports* ,1980 *Pesticides Abstracts* ,1980
Amino-acid, Peptide & Protein Abstracts ,1979 **Chemical Abstracts** ,1990 *Electrical & Electronics Abstracts* ,1997
Science Citation Index ,1994 Vols for 1964 have guides and journal lists *Health Aspects of Pesticides Abstract Bulletin* ,1980 *Molecular Polarity* , **Chemistry Masteringchemistry Standalone Access Card** Nivaldo J. Tro,2013-01-10 The Mastering platform is the most effective and widely used online homework tutorial and assessment system for the sciences It delivers self paced tutorials that focus on your course objectives provide individualized coaching and respond to each student s progress The Mastering system helps instructors maximize class time with easy to assign customizable and automatically graded assessments that motivate students to learn outside of class and arrive prepared for lecture or lab New to MasteringChemistry MasteringChemistry metadata analysis of problems tutorials assigned in the previous edition have been used to revise end of chapter problems in the Third Edition Approximately 1 000 end of chapter questions have been enhanced with feedback meeting instructor s need for more tutorial like questions Interactive versions of selected worked examples in the text have been created and are incorporated into MasteringChemistry as assignable tutorial activities providing an office hour like experience These can also be used for mobile learning through a downloadable app 15 Pause and Predict Video Quizzes bring chemistry to life with lab demonstrations illustrating key topics in general chemistry Students are asked to predict the outcome of experiments as they watch the videos a set of multiple choice questions challenges students to apply the concepts from the video to related scenarios 8 PhET tutorials have been developed around interactive applets that foster conceptual understanding and active learning Topics include acid base solutions balancing chemical equations and molecular polarity Multiple choice Reading Questions are provided for each chapter making it easy to hold students accountable for doing assigned readings before lecture Enhanced end of chapter questions within MasteringChemistry providing wrong answer feedback have been added Sketch it type problems have been added for each chapter Simulations cover some of the most difficult chemistry concepts and are written by the leading authors in simulation development Select end of chapter questions and reading quizzes have been tagged to learning outcomes The overall number of algorithmic and randomized problems have been increased to 40% offering a more rounded program for departments moving to online high stakes testing **Misconceptions in the Area of Molecular Geometry and Molecular Polarity Among College Introductory and General Chemistry Students** Patricia L. Rambo,2004 **The Role of Mental-modeling Ability, Content Knowledge, and Mental Models in General Chemistry Students' Understanding about Molecular Polarity** Chia-Yu Wang,2007 This study explored general chemistry students thinking processes about molecular polarity and related concepts The study employed a mixed method design to reveal how general chemistry students use their conceptual frameworks and mental models to solve problems about molecular polarity The

quantitative phase collected students background information scores of course exams as well as understanding and misconceptions about concepts of molecular geometry polarity and prerequisite concepts for a large sample size The qualitative phase was guided by a theoretical framework of personal constructivism and a case study methodology The primary data sources were video taped interviews to document students explanations and thinking processes The secondary data sources were students constructed artifacts and their responses to the items on the three diagnostic instruments Grounded theory approach employing a comparative method was used for data analysis Findings of the quantitative study indicated results of inferential statistics and identified students misconceptions associated with concepts of electronegativity chemical bonding bond polarity molecular shape polarity of molecules intermolecular force and ionic lattices For qualitative findings I characterized high moderate and low scoring students mental modeling ability conceptual frameworks and features of mental models while solving problems about molecular geometry and polarity The major findings include that there is a positive interaction between an individual s level of content knowledge and mental modeling ability where one may facilitate or hinder the other In addition three prerequisite concepts were identified that may explain students failure for learning about molecular geometry and polarity I also found that metacognitive ability plays a significant role in a successful mental modeling process This study provides empirical evidence for how students content knowledge mental modeling ability and construction and use of mental models influence their understanding about molecular polarity The findings have implications for college chemistry education for teaching concepts of molecular polarity

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