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## **Experiment 11:**

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Walter Lewin.

## **Molecule Shapes - Molecules | VSEPR | Lone Pairs - PhET ...**

5. How does the ABC-  
bond angle effect  
molecule polarity?  
explain a key  
relationship in the c 6.  
Explain the relationship  
between the bond  
dipoles and the  
molecular dipole.  
dipoles. students to  
explore a difficult  
component of 7. Can a

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non-polar molecule  
contain polar bonds?  
Use an example to  
explain your answer.  
Comment [1]: This  
activity could ...

## **Molecular Polarity Guided Inquiry**

These exercises will  
allow you to further the  
knowledge gained in  
the lab and answer  
many of the "what if"  
questions that arise  
during the course of  
the exercise. ...

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## **Molecule Polarity Phet Lab Answer Key PDF complete - VijayArn**

Molecule Polarity Lab  
Introduction; In this

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atomic-level simulation, you will investigate how atoms' electronegativity value affects the bonds they produce. When two atoms bond, a pair of electrons is shared between atoms. Electronegativity is a measure of a single atom's ability to attract the electrons shared in that bond. In this lab you will work to answer a number of questions.

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## **Molecule Polarity Phet Answer Key | Understanding Science**

polar covalent.

Molecules composed of covalently bonded atoms may also be polar or nonpolar. For the molecule to be polar, it must, of course, have polar bonds. But the key factor for determining the polarity of a molecule is its shape. If the polar bonds

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(dipoles)

## **AP Chemistry PHET Labs**

Molecular Polarity The molecular geometry determines whether a molecule with polar bonds will be polar or nonpolar. Polarity of bonds results from the difference in electronegativity between atoms that share electrons. The greater the difference in electronegativity

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between bonded atoms, the greater the bond dipole.

## **Molecule Polarity - PhET Contribution**

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## **phET Simulation on Molecule Polarity**

Molecule Polarity-  
Inquiry and

Applications:

Description This was used in class or as a homework depending on the class schedule. The students

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worked with Build a Molecule and Molecule Shapes before this.

## **Molecule Polarity - PhET Interactive Simulations**

Molecule Polarity:  
Description The activity was used in undergraduate recitations on polarity, and provides a guided inquiry of the simulation. Students explore and answer questions on the first

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two tabs, and then predict the bond and molecular dipoles for real molecules in the third tab. Subject Chemistry: Level

## **Polarity Simulation**

**KEY - Name Date**

### **IMFs and Polarity ...**

1. What combination) of electronegativities) created) a non polar) molecule?)
2. What combinations) of electronegativities) created) a moderately polar) molecule?)

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## **pHET Molecular Polarity Simulation Worksheet - MAFIADOC.COM**

Explore molecule shapes by building molecules in 3D! How does molecule shape change with different numbers of bonds and electron pairs? Find out by adding single, double or triple bonds and lone pairs to the central atom. Then, compare the model to

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real molecules!

## **Molecule Polarity Phet Lab Answer**

When is a molecule polar? Change the electronegativity of atoms in a molecule to see how it affects polarity. See how the molecule behaves in an electric field. Change the bond angle to see how shape affects polarity.

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## **Molecule Polarity - Polarity | Electronegativity - PhET**

Molecule Polarity -  
PhET Interactive  
Simulations

## **C. Molecule Polarity PhET Lab - Chemistry @ LHS**

pHET Molecular Polarity  
Simulation Worksheet  
Follow the procedures  
outlined on the  
directions sheet. Fill in  
the table below

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accordingly. TWO

ATOM SIMULATION

“EN” means

electronegativity.

ATOM A EN Notch (0 -

10) ATOM B EN Notch

(0 - 10) BOND

CHARACTER BOND

DIPOLE (draw arrow)

PARTIAL CHARGES

(draw)

## **PhET Molecule**

### **Polarity Activity**

Name: \_\_\_\_\_ Molecule

Polarity PhET Lab A

study of

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electronegativity, bond polarity, and molecular polarity... Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

IMFs and Polarity

Directions:-- Use the following simulation to answer the questions:

Questions: 1) What is

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the difference between a bond dipole and a molecular dipole?

Which property controls each type of polarity? Which one directly affects IMFs? A bond dipole comes from the uneven sharing of electrons due to a difference in electronegativities of the atoms.

**Molecule Polarity-  
Inquiry and  
Applications - PhET**

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Molecule Polarity PhET  
Lab A study of e  
lectronegativity, bond  
polarity, and m  
olecular polarity ...  
answer a number of q  
uestions. To begin, f  
rom what you've a  
lready learned about t  
he protons and e  
lectrons in a n ... This i  
s known as a non-  
polar covalent bond (   
atoms share a pair o  
f electrons equally ) .

Draw

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## **LAB: SHAPES OF COVALENT MOLECULES & POLARITY**

Lab 1. Bond Character  
and Molecular Polarity:  
How Does Atom  
Electronegativity Affect  
Bond Character and  
Molecular Polarity?

Introduction . Chemists  
often classify chemical  
compounds into one of  
two broad categories.

The first category is  
molecular compounds,

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and the second category is ionic compounds. Molecular compounds consist of