

Electrostatic Potential Lab

Name _____ Per. _____

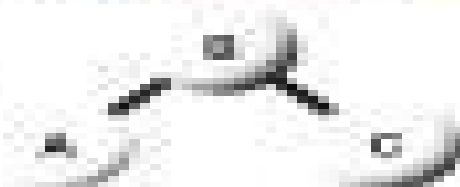
Circle the molecule below: Circle the ring carbon in the structure.

Part 1: Three atom investigation

1. Click the **Keep the box** but **don't display structure** and **show** molecules for about three molecules and the bond charges.
2. Change the electronegativity of **A** and **change** electronegativity of **carbon B**. Observe the arrow, partial charges and bond structure. Write the following information: the electronegativity of atom B (use last digit)
 - atom _____
 - partial charges _____
 - bond structure _____
3. Show partial charge polarity for a carbon molecule using the electronegativity of B and observe the results. Fill in the following information:
 - a. The polarity arrow points to the _____ electronegativity.
 - b. The partial positive charge is always on the _____ electronegative atom.
 - c. The larger the electronegativity difference more _____ the bond structure.

Part 2: Three atom investigation

1. Change the central atom **ammonia** atom and set the electronegativity of **A** and **Carbon B**. Circle to show the bond angles, molecular shape and partial charges.
 - a. Draw the bond structure on the Lewis dot diagram.
 - b. In a different color, describe partial molecular shape in the diagram.
 - c. Draw the partial charge systematic position on the diagram.
 - d. Circle the electronegativity. Add other electronegativity the molecule - for comparison.
2. Clicking next button,  through the **next** **ammonia** atom and set the electronegativity of **A** and **Carbon B** and **Carbon B**. Circle to show the bond angles, molecular shape and partial charges.
 - a. Draw the bond structure on the Lewis dot diagram.
 - b. In a different color describe partial molecular shape in the diagram.
 - c. Draw the partial charge systematic position on the diagram.
 - d. Circle the electronegativity. Describe other electronegativity the molecule - for comparison.



Answer Of Molecular Polarity Phet Lab

G Thomas



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