



ICT Corner

Shapes of Molecule (VSEPR Theory)

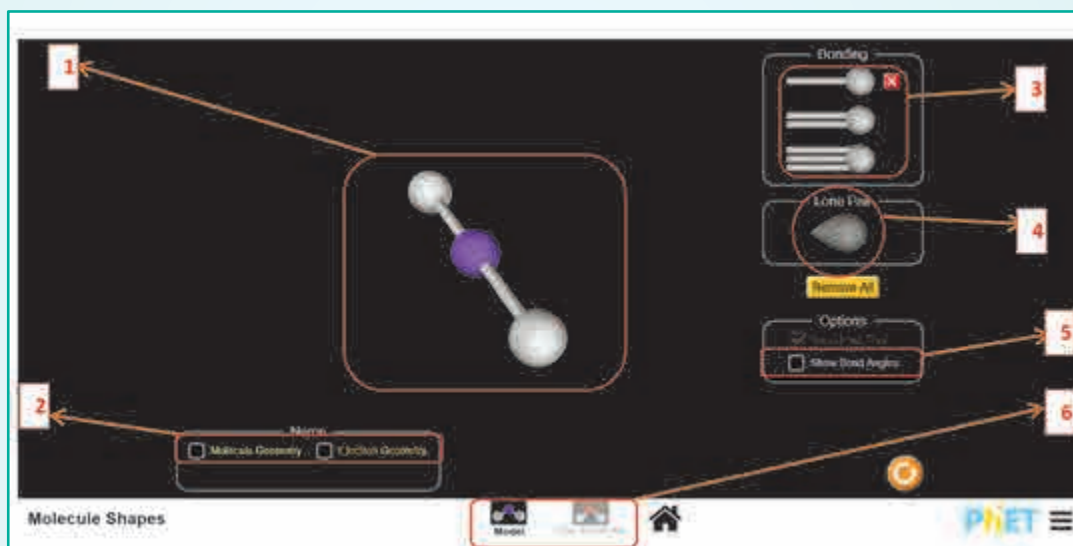
By using this tool, you will be able to create and visualise molecules with different number of bonds and lone pairs.

Please go to the URL
https://phet.colorado.edu/sims/html/molecule-shapes/latest/molecule-shapes_en.html
 (or)
 Scan the QR code on the right side



Steps

- Open the Browser and type the URL given (or) Scan the QR Code.
- Double click the 'models' icon given in this page. Now you will see the web page as shown in the figure.
- Now, by selecting the number of bond pairs and lone pairs using the options in the box 3 and 4 effectively, you visualize the corresponding molecular geometry.
- You can see the angles between the bonds selecting the "Show bond angles" indicated in box 5.
- You can also visualize the molecular geometry and the electron geometry by selecting corresponding option in box 2.



Structure of simple molecules:

By selecting the real molecules icon in indicated in the box 6, you will be able to see a screen as shown below. In this screen, use the dropdown menu indicated in box 7 you can select a molecule. Use the option in the box 8 you can visualise the lone pairs and bond pairs in the molecules.