

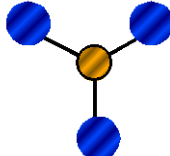
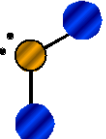
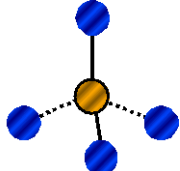
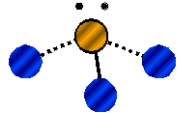
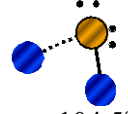


MOLECULAR SHAPES (Honors Chemistry; Podcast Bonding 6)

"clouds"					
2	 <p>Linear Triatomic, Usually nonpolar CO_2, HCN</p>		<p>Linear Diatomic</p>  <p>Polarity depends upon electronegativity difference Polar if >0.5 Nonpolar if <0.5</p>		<p>In molecules where the outside molecules are different, shapes that tend to be nonpolar usually become polar.</p>
3	 <p>Trigonal Planar: BF_3, SO_3, NO_3^- 120° Usually nonpolar</p>	 <p>Bent, 120° Usually polar NO_2^-</p>		<p>Remember to count the number of "clouds" of electrons, not the actual number of electrons. A double or triple bond counts as one effective pair.</p>	<p>Also: If there ever is a two molecule atom (diatomic) that molecule's polarity depends upon the electronegativity difference of the atoms</p>
4	 <p>Tetrahedral; 109°: Usually nonpolar CH_4, CF_4</p>	 <p>Pyrimidal: 107° Usually polar: NH_3, PCl_3</p>	 <p>Bent: 104.5° Usually polar: H_2O, OF_2</p>		