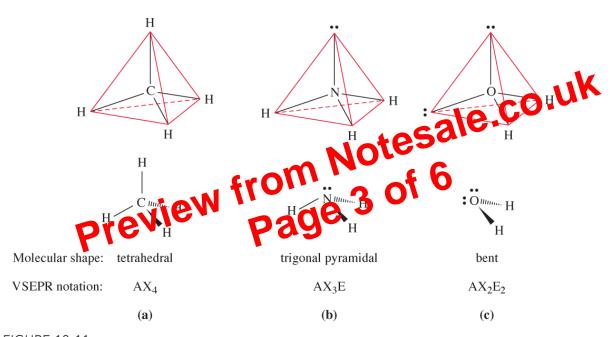


## Octahedral (8 faces)

## Molecular geometry: based off the electronic geometry



## $\blacktriangle$ FIGURE 10-11 Molecular shapes based on tetrahedral electron-group geometry of CH<sub>4</sub>, NH<sub>3</sub>, and H<sub>2</sub>O

Polarity: NaCl is ionic so you see a complete transfer of electrons. Hal and Cl2 are covalent so you see a sharing of electrons. HCL is polar covalent and Cl2 is non polar covalent.

