

## 5.1: Valence Bond Theory

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Learning objectives for this unit are to:

- Construct simple diagrams to explain the hybridization of atomic orbitals
  - Identify the hybrid orbitals used to describe the bonding in covalent compounds based on the VSEPR molecular geometry
  - Use words and pictures to develop valence bond descriptions of the bonding in covalent compounds
  - Calculate the percent s-character in a hybrid orbital based on the bond angle
  - Predict or explain experimental bond angles in molecules based on the percent s-character in hybrid orbitals and Bent's rules
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