

## 5.4: Polyatomic MO Diagrams

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Learning objectives for this unit are to:

- Use group theory and the central atom generator function method to determine the symmetries of and draw pictures of ligand group orbitals (LGOs)
  - Derive molecular orbital energy diagrams for polyatomic molecules based on the interactions between the central atom AOs and the LGOs
  - Use MO diagrams to determine or rationalize bond order (bond length/strength), magnetism, and reactivity of molecules
  - Generate and interpret Walsh correlation diagrams for two different geometric arrangements of atoms
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