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Molecular Orbital (MO) Theory

Molecules do not behave as a conglomeration of individual atoms. Atomic orbitals from bonding atoms form molecular orbitals specific to the molecule.

Example: H₂

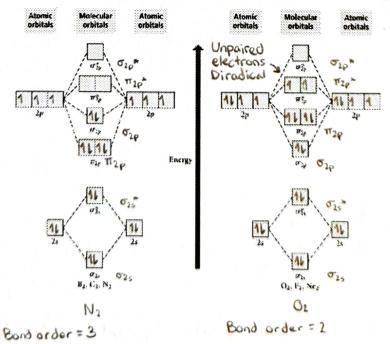
Bond order: # of electrons in bonding orbitals - antibonding orbitals

Molecular Orbital (MO) Theory

Example: He₂

Example: He₂+

Period 2 Homonuclear Diatomics



Paramagnetism vs. Diamagnetism

Paramagnetism 02 Results from the presence of unpaired electrons

Diamagnetism N2 Property observed when all electrons are paired