

**NOTES**

- For exams and quizzes, you'll be given the following information:
 - LOWEST→HIGHEST Energy: (σ_s) (σ_s^*) (π_p) (σ_p) (π_p^*) (σ_p^*)
 - LOWEST→HIGHEST Energy: (σ_s) (σ_s^*) (σ_p) (π_p) (π_p^*) (σ_p^*)
- You'll need to memorize:
 - which elements use which molecular orbitals (from 1a & 1b above)
 - the M.O. energy levels relative to the atomic orbitals
 - the number of orbitals in each sigma (σ) and pi (π) molecular orbital
- ALSO SEE Fig. 9.39, p. 410, *Chemistry, 7th ed.*, Zumdahl & Zumdahl, 2007, Houghton Mifflin Company