

10/8/2009

Home assignment: - aim to complete by Oct 17-19.

Chapter 10. – Read Ch.10 pp.372-411

Recommended problems: on pp. 412-417: 10.XX, where XX is:
17, 21, 25, 27, 29
31, 35, 37, 39, 41
43, 47, 51, 55, 57
59, 61, 65, 67, 73, 75

(Most of these are blue. Work out your own solution first, THEN check the book solution. Be sure you understand it and CAN DO it on your own!)

Some of the important terms/concepts (define/explain in writing):

VSEPR model, molecular geometry, dipole moment, hybridization, sigma and pi bonds, valence bond theory, molecular orbital theory, bonding and anti-bonding orbitals, homonuclear and heteronuclear diatomic molecular orbitals.

developing skills:

1. from Lewis structure predict molecular geometry
2. predict dipole moment based on molecular geometry and polarity of individual atomic bonds
3. describe orbital hybridization of each atom in a molecule
4. draw molecular orbital diagram for simple X_2 molecules, determine if it's paramagnetic