

Chemistry 101 Final Exam Review

1. Molecular Orbital Diagrams
Bond Order
2. Valence Bond Theory
Hybrid Orbitals
 σ and π bonding models
3. Freezing point depression/Boiling point elevation
4. Crystal Structures
5. Henry's Law
6. Ideal Gas Law
Stoichiometry
Dalton's Law of Partial Pressures
7. Stoichiometry
8. Redox Reactions
Balancing acid/base reactions
9. Ionic Precipitation Reactions
Complete Ionic Equations
Net Ionic Equations
10. Electronic Structures
Electron Configurations
Orbital Diagrams
Magnetism (Diamagnetic/ Paramagnetic)
11. Lewis Dot Structures
12. Thermochemistry
13. Phase Diagrams
14. Molecular Weight by Freezing Point Depression
15. VSEPR Theory
Molecular Structures (arrangement of e pairs and geometry)
Predict hybridization
Bond Angles
16. Extra Credit.