

Chemistry 65 Final Exam Review

1. Repeat Questions from Exams.
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9. Acid/Base Calculations
pH
[H⁺], [OH⁻]
10. Acid/Base Titration Stoichiometry
Balancing acid-base reactions
Molarity to mole conversion
11. Dilutions of Solutions
Determine Molarity (mol per L) or Volumes: $M_1V_1=M_2V_2$
12. Lewis Dot Structures
Valence Electron Count
Octet Rule
Formal Charges on Atoms
13. Stoichiometry
Balance Equation
Gram to mole conversion
Mole to Mole Ratio
14. Gas Laws
Ideal Gas Law: $PV = nRT$
Charles's Law: Volume vs Temperature (at constant pressure)
Boyle's Law: Pressure vs Volume (at constant temperature)
15. Electron Configuration
16. Extra Credit.