

2nd Semester Final - 80 questions

Chemical Reactions - 17

- 6- Law of conservation of mass
- 7- Balancing and or writing equations
- 2 - Types of reactions
- 2 - Energy diagram

Moles, Molarity, Dilutions - 12

- 6 - Mole Conversions (mass and particles)
- 1 - Molar Mass
- 2 - Molarity
- 2 - Dilutions
- 1 - Solute/Solvent

Stoichiometry - 8

- 2 - Mole to mole ratio
- 1 - mole to mole
- 2 - gram to mole or mole to gram
- 2 - gram to gram
- 1 - Percent yield

Acids and Bases - 13

- 3 - pH calculations
- 5 - properties/definitions
- 3 - graph interpretation
- 1 - titration/neutralization problem
- 1 - write the neutralization equation

Heat Energy - 16

- 3 - Energy bar charts
- 2 - specific heat concept
- 1 - Calorimetry problem
- 3 - Heat transfer
- 2 - specific heat calculation
- 4 - heating curve conceptual

Reaction Rates/Equilibrium - 8

- 1 - Collision Theory
- 3 - factors that affect rate of reaction
- 4 - equilibrium

Graph and Data Analysis - 7