

Regents Review 2.0



The Physical Setting – Chemistry

Mark Rosengarten
Washingtonville High School

Facts About The Exam



- **85 Points**
 - Part A – 30-35 MC (facts, vocab)
 - Part B1 – 15-20 MC (application +)
 - Part B2 – short answer (like B1)
 - Part C – short answer (reading, analysis)
- **Reference Tables Provided**
- **Bring a Calculator (non-graphing)**
- **Must be in PEN (except graphs)**

Hints To Success



- Extreme questions have extreme answers
- One Of These Things Are Not Like The Other
- Keep short answers **SHORT** and **SIMPLE**
- Do not give examples unless asked for
- Use the Reference Tables **FREQUENTLY**
- Show numerical setup for all math probs
- Use the *“nerd terms”* in answer
- Start active studying **NOW**

PARTICLES



- **Subatomic Particles (Charge, # of, etc.)**
- **Natural Radioactive Decay Problems**
- **Behavior Of Gases**
- **Temperature Measures Average KE**

BONDING



- **Ionic And Covalent Bonds**
- **Attractive Force Strength vs. BP and VP**
- **Electrolytes vs. Nonelectrolytes**

COMPOUNDS & REACTIONS



- **Converting Between Grams And Moles**
- **Finding Molecular Formulas**
- **Mole-Mole Stoichiometry**

KINETICS & EQUILIBRIUM)



- PE Diagrams
- Le Chatelier's Principle

SOLUTIONS, ACIDS & BASES



- $M_a V_a = M_b V_b$ vs. $M = \text{moles/L}$
- Bronsted/Lowry (Alternate Theory)

ELECTROCHEM & ORGANIC



- Half-Reactions
- Voltaic Cells
- Isomers (hydrocarbons)
- Isomers (families)

For More Review



- Visit

www.youtube.com/markrosengarten

For videos of every topic in Chemistry, select the Regents Chemistry playlist and the Chemistry Music Videos playlist.

GOOD LUCK!!!!