

Test 1 Review

Dr. Turner

Tips for taking multiple choice tests

- ❑ ANSWER EVERY QUESTION!!!!
- ❑ There is no penalty for guessing

Tips for taking multiple choice tests

- ❑ There is no extra credit given for working the test in order
- ❑ When reading questions, categorize them into the categories:
work now, work later, work much later
 - ▣ Work now: quick and simple questions that you know how to work
 - ▣ Work later: questions that you know how to work but would take a long time to complete
 - ▣ Work much later: questions that you're not sure how to work at all
- ❑ Working other questions in the test might refresh you on a piece of information that you need to work a “work much later question”

Tips for taking multiple choice tests



- ❑ Eliminate wrong answer choice before picking an answer

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Which of the following is a topic first introduced in organic chemistry?

- ~~A. Group Theory~~
- B. Buffers
- C. Gas Laws
- D. Stereoisomerism

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You've now improved your odds
of getting the correct answer from
25% to 50%

Chapter 10 Topics

- Types of IMFs
 - ▣ Ion-dipole, hydrogen bonding, dipole-dipole, dispersion forces
- IMF strength and determining the predominant IMF in a Molecule
- IMFs, Kinetic Energy, and External Pressure
- Properties resulting from IMFs
 - ▣ vapor pressure, volatility, boiling point, surface tension, viscosity, and capillary action
- Kinetic Molecular Theory of Liquids
- Heating Curves
- Phase Diagrams
 - ▣ Triple point, critical point, supercritical fluid, increasing pressure makes liquid or solid
- Clausius-Clapeyron Equation

Chapter 11 Topics

- Solutions
 - ▣ Characteristics, formation, ideal solutions
- Saturation
- Solubility of phases within one another
 - ▣ Henry's Law
 - ▣ Miscibility
- Concentration units
 - ▣ Molarity, molality, mole fractions
- Vapor pressure lowering and Raoult's Law
- Boiling Point Elevation, Freezing Point Depression, and Osmotic Pressure

Chapter 12 Topics

- Reaction rates and relative rates of reactions
- Factors affecting reaction rates
- Rate Laws and the Method of Initial Rates