

# Test 1 Review

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# Tips for taking multiple choice tests

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- ❑ 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”

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Which of the following is a topic first introduced in the second semester of general chemistry?

- A. Atomic Symbols
- B. Buffers
- C. The Periodic Table
- D. Group Theory

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Which of the following is a topic first introduced in the second semester of general chemistry?

- ~~A. Atomic Symbols~~
- B. Buffers
- ~~C. The Periodic Table~~
- D. Group Theory

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

# Chapter 1 Topics

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- Classifying matter
- Density
- Accuracy and Precision
- SI Units and Unit Conversions
- Dimensional Analysis

# Chapter 2 Topics

- ❑ Laws of Chemical Combinations
- ❑ Atomic Composition, Subatomic Particles, Charge, Atomic Number, Mass Number
- ❑ Atomic Symbols, Ions, and Isotopes
- ❑ Average Atomic Mass
- ❑ The Periodic Table
- ❑ Chemical Symbols and Chemical Formulas
- ❑ Molecular and Ionic Compounds
- ❑ Naming Binary Nonmetals, Ionic Compounds, Hydrates, and Acids
- ❑ Formulas for Neutral Ionic Compounds
- ❑ Assigning Oxidation Numbers



# Chapter 3 Topics

- ❑ Formula Units
- ❑ The Mole, Molar Mass, Atomic Mass Units
- ❑ Elemental Composition and Percent Composition
- ❑ Empirical and Molecular Formulas
- ❑ Solutions and Concentration
- ❑ Molarity
- ❑ Dilution
- ❑ Molarities of Ions
- ❑ Mass Percentage and Volume Percentage
- ❑ Parts per Million and Parts per Billion