

# Chemistry Finals Study Guide

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## Chapter 1 & 2 - Review of Basic Concepts

- **Describe the 3 states of matter.** The three states of matter are *solid*, *liquid*, and *gas*.
  - **Solid:** When atoms in a material are moving slow that they stick together and barely move, creating a hard object classified as a solid
  - **Liquid:** When atoms are moving slower than a gas state but faster than the solid state so they flow and are able to take the shape of their container. They have more energy than solid state atoms.
  - **Gas:** When atoms are moving faster than the other two states of matter (solid & liquid) that they are no longer pulled towards each other and roam freely without boundaries if not kept in a container.
- **Describe the difference between elements and compounds, mixtures.**
  - **Elements:** materials that are only made out of the same *type* of atoms and cannot be changed into simpler substances by a chemical change (ex:  $O_2$ )
  - **Compounds:** materials that are a mix of two or more element in a fixed proportion
  - **Mixtures:** a mixture of 2 or more pure substances.
    - **Heterogeneous Mixture:** can often be separated by filtration
    - **Homogenous Mixture:** can be separated by distillation, crystallization, and chromatography
- **Convert between Celsius and Kelvin.**
  - **Celsius to Kelvin:**  $C = (^{\circ}K - 273.15)$
  - **Kelvin to Celsius:**  $K = (^{\circ}C + 273.15)$
- **Round measured and calculated values to the correct number of significant digits.**
  - Significant Digit Rules: [\[CHEM\] Final 1 - Steps & Processes](#)
- **Use dimensional analysis to solve multi step equations, showing how units cancel**  
[\[CHEM\] Final 1 - Steps & Processes](#)
- **What is the difference between precision and accuracy?**
  - **Precision:** Acquiring the same result again and again
  - **Accuracy:** A result that is close to the accepted value/actual answer

# Principles Of Chemistry Final Study Guide

**Mary Burnham, Carol Hurd**



## **Principles Of Chemistry Final Study Guide:**

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**Fundamentals of Biochemical Calculations** Krish Moorthy, 2007-11-30 Fundamentals of Biochemical Calculations Second Edition demystifies the fundamental calculations used in modern biochemistry cell biology and allied biomedical sciences The book encourages both undergraduates and scientists to develop an understanding of the processes involved in performing biochemical calculations rather than rely on mem      *The United States Catalog* Mary Burnham, Carol Hurd, 1928

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