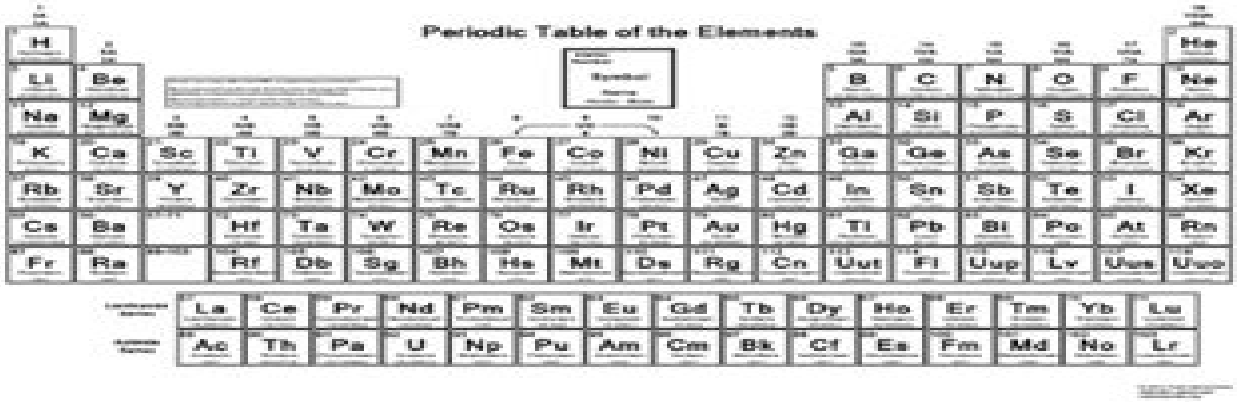
# Chemistry Study Guide




### 🔬 Objective:

To understand the *structure of an atom*, and the *nature + properties* of subatomic particles 🧑‍🔬✨.

### 💡 Matter:

Anything that has **mass** and **occupies space** 🏋️🌍

*Examples*: air, gases, liquids, solidz!

### ⚛️ Atoms:

Atoms are the **smallest, indivisible particle** 🔬✂️.

- **Outer part** → *shell/orbit/energy level* → carries the electronz (e−)
- **Inner part** → *nucleus* → houses the protons (p+) and neutronz (n)
- Outer & Inner part → together these are the **subatomic particles**

### 🧪 Subatomic Particle Table:

| Particle | Symbol | Mass (amu) | Charge | Location |
|---|---|---|---|---|
| **Proton** | $p^+$ | 1 | +1 | Nucleus |
| **Neutron** | n | 1 | 0 | Nucleus |
| **Electron** | $e^-$ | ~0 | -1 | Orbit/Shell |

# Section 2nuclear Chemistry Study Guide Key

R Pring

**Section 2nuclear Chemistry Study Guide Key:**

*Chemistry, Student Study Guide* John A. Olmsted,Gregory M. Williams,2005-02-02 100% Pure Chemical Understanding Every morning many of us are energized by a cup of coffee Imagine if you were as energized by understanding the chemistry in your morning cup from the coffee trees which fill red coffee berries with caffeine and a variety of other chemical substances to the feathery crystals formed by the caffeine molecules to the decaffeinating machines which use liquid solvents to remove this stimulant from some of the beans Now that s real chemical understanding Olmsted and Williams Fourth Edition of Chemistry focuses on helping you see and think about the world and even your coffee as a chemist This text helps you understand how chemical phenomena are governed by what happens at the molecular level apply critical thinking skills to chemical concepts and problems and master the basic mathematical techniques needed for quantitative reasoning You ll see the world as chemists do and learn to appreciate the chemical processes all around us A Fourth Edition with a lot of new perks Revisions include a new early energy chapter revised coverage of bonding expanded coverage of intermolecular forces and increased coverage of multiple equilibria including polyprotic acids New pedagogy strengthens students critical thinking and problem solving skills Visual Summaries at the end of each chapter use molecular and diagrammatic visual elements to summarize essential skills concepts equations and terms eGrade Plus provides an integrated suite of teaching and learning resources including a complete online version of the text links between problems and relevant sections in the online text practice quizzes the Visual Tutor Interactive LearningWare problems and lab demos as well as homework management and presentation features for instructors *Study Guide, Answer Book to Accompany Organic Chemistry* Alan S. Wingrove,Robert L. Caret,1981 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 **Nuclear Science Abstracts** ,1971-05 **Selected United States Government Publications** United States. Superintendent of Documents,1970 General Chemistry Study Guide Sixth Edition Darrell D. Ebbing,1999

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