

# Chemistry Study Guide

### Periodic Table of the Elements

|                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
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| <div>1<br/>H</div>   | <div>2<br/>He</div>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                       |                       |                       |                       |                       | <div>18<br/>Ar</div>  | <div>19<br/>K</div>   | <div>20<br/>Ca</div>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | <div>36<br/>Kr</div>  | <div>37<br/>Rb</div> | <div>38<br/>Sr</div> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | <div>54<br/>Xe</div> | <div>55<br/>Cs</div> | <div>56<br/>Ba</div> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      | <div>86<br/>Rn</div> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <div>3<br/>Li</div>  | <div>4<br/>Be</div>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                       |                       |                       |                       |                       | <div>12<br/>Mg</div>  | <div>13<br/>Al</div>  | <div>14<br/>Si</div>  | <div>15<br/>P</div>   | <div>16<br/>S</div>   | <div>17<br/>Cl</div>  | <div>18<br/>Ar</div>  | <div>19<br/>K</div>   | <div>20<br/>Ca</div>  | <div>21<br/>Sc</div>  | <div>22<br/>Ti</div>  | <div>23<br/>V</div>   | <div>24<br/>Cr</div>  | <div>25<br/>Mn</div>  | <div>26<br/>Fe</div> | <div>27<br/>Co</div> | <div>28<br/>Ni</div> | <div>29<br/>Cu</div> | <div>30<br/>Zn</div> | <div>31<br/>Ga</div> | <div>32<br/>Ge</div> | <div>33<br/>As</div> | <div>34<br/>Se</div> | <div>35<br/>Br</div> | <div>36<br/>Kr</div> | <div>37<br/>Rb</div> | <div>38<br/>Sr</div> | <div>39<br/>Y</div>  | <div>40<br/>Zr</div> | <div>41<br/>Nb</div> | <div>42<br/>Mo</div> | <div>43<br/>Tc</div> | <div>44<br/>Ru</div> | <div>45<br/>Rh</div> | <div>46<br/>Pd</div> | <div>47<br/>Ag</div> | <div>48<br/>Cd</div> | <div>49<br/>In</div> | <div>50<br/>Sn</div> | <div>51<br/>Sb</div> | <div>52<br/>Te</div> | <div>53<br/>I</div> | <div>54<br/>Xe</div> | <div>55<br/>Cs</div> | <div>56<br/>Ba</div> | <div>57<br/>La</div> | <div>58<br/>Ce</div> | <div>59<br/>Pr</div> | <div>60<br/>Nd</div> | <div>61<br/>Pm</div> | <div>62<br/>Sm</div> | <div>63<br/>Eu</div> | <div>64<br/>Gd</div> | <div>65<br/>Tb</div> | <div>66<br/>Dy</div> | <div>67<br/>Ho</div> | <div>68<br/>Er</div> | <div>69<br/>Tm</div> | <div>70<br/>Yb</div> | <div>71<br/>Lu</div> | <div>72<br/>Hf</div> | <div>73<br/>Ta</div> | <div>74<br/>W</div> | <div>75<br/>Re</div> | <div>76<br/>Os</div> | <div>77<br/>Ir</div> | <div>78<br/>Pt</div> | <div>79<br/>Au</div> | <div>80<br/>Hg</div> | <div>81<br/>Tl</div> | <div>82<br/>Pb</div> | <div>83<br/>Bi</div> | <div>84<br/>Po</div> | <div>85<br/>At</div> | <div>86<br/>Rn</div> |
| <div>57<br/>La</div> | <div>58<br/>Ce</div> | <div>59<br/>Pr</div> | <div>60<br/>Nd</div> | <div>61<br/>Pm</div> | <div>62<br/>Sm</div> | <div>63<br/>Eu</div> | <div>64<br/>Gd</div> | <div>65<br/>Tb</div> | <div>66<br/>Dy</div> | <div>67<br/>Ho</div> | <div>68<br/>Er</div> | <div>69<br/>Tm</div> | <div>70<br/>Yb</div>  | <div>71<br/>Lu</div>  | <div>72<br/>Hf</div>  | <div>73<br/>Ta</div>  | <div>74<br/>W</div>   | <div>75<br/>Re</div>  | <div>76<br/>Os</div>  | <div>77<br/>Ir</div>  | <div>78<br/>Pt</div>  | <div>79<br/>Au</div>  | <div>80<br/>Hg</div>  | <div>81<br/>Tl</div>  | <div>82<br/>Pb</div>  | <div>83<br/>Bi</div>  | <div>84<br/>Po</div>  | <div>85<br/>At</div>  | <div>86<br/>Rn</div>  |                       |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
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## 🔍 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, solids!

## 🔬 Atoms:

Atoms are the **smallest, indivisible particle** 🧪👉

- **Outer part** → *shell/orbit/energy level* → carries the electrons ( $e^-$ )
- **Inner part** → *nucleus* → houses the protons ( $p^+$ ) and neutrons ( $n$ )
- 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 | $e^-$  | $\sim 0$   | -1     | Orbit/Shell |

# Study Guide Modern Chemistry Answers

**Ingrid Koreneff, Kerry Sims-McLean**



## Study Guide Modern Chemistry Answers:

**Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual** Leo J. Malone, Theodore O. Dolter, 2012-01-03  
The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. A new Math Check allows quick access to the needed basic skill. The first chapter now includes brief introductions to several fundamental chemical concepts, and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter.

Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed Paul A. Bartlett, Judith G. Koch, 1992

Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston, Katherine, 2006

Chemical Principles Study Guide/Solutions Manual John Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18  
Written for general chemistry courses, Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications.

Study Guide for Mortimer's Chemistry, Sixth Edition Donald W. Shive, Louise E. Shive, 1986

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**A Guide to Modern Chemistry** John F. Baxter, Jay A. Young, 1959

**Student Study Guide to accompany Chemistry** Martin Silberberg, Libby Weberg, 2005-01-06

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**Study Material Based On NCERT Science Class- X** Dr. Sunita Bhagiya, Er. Meera Goyal, 2021-11-26  
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