

# Chemistry Study Guide

# Periodic Table of the Elements

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| <sup>1</sup> <sub>1</sub> H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                   |                                  |                                   |                                  | <sup>2</sup> <sub>2</sub> He      |                                   |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>3</sup> <sub>3</sub> Li                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <sup>4</sup> <sub>4</sub> Be   |                                |                                |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                   |                                  |                                   |                                  |                                   | <sup>5</sup> <sub>5</sub> B       | <sup>6</sup> <sub>6</sub> C    | <sup>7</sup> <sub>7</sub> N    | <sup>8</sup> <sub>8</sub> O    | <sup>9</sup> <sub>9</sub> F    | <sup>10</sup> <sub>10</sub> Ne |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>11</sup> <sub>11</sub> Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <sup>12</sup> <sub>12</sub> Mg |                                |                                |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                   |                                  |                                   |                                  |                                   | <sup>13</sup> <sub>13</sub> Al    | <sup>14</sup> <sub>14</sub> Si | <sup>15</sup> <sub>15</sub> P  | <sup>16</sup> <sub>16</sub> S  | <sup>17</sup> <sub>17</sub> Cl | <sup>18</sup> <sub>18</sub> Ar |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>19</sup> <sub>19</sub> K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <sup>20</sup> <sub>20</sub> Ca | <sup>21</sup> <sub>21</sub> Sc | <sup>22</sup> <sub>22</sub> Ti | <sup>23</sup> <sub>23</sub> V    | <sup>24</sup> <sub>24</sub> Cr   | <sup>25</sup> <sub>25</sub> Mn   | <sup>26</sup> <sub>26</sub> Fe   | <sup>27</sup> <sub>27</sub> Co   | <sup>28</sup> <sub>28</sub> Ni   | <sup>29</sup> <sub>29</sub> Cu   | <sup>30</sup> <sub>30</sub> Zn   | <sup>31</sup> <sub>31</sub> Ga   | <sup>32</sup> <sub>32</sub> Ge    | <sup>33</sup> <sub>33</sub> As   | <sup>34</sup> <sub>34</sub> Se    | <sup>35</sup> <sub>35</sub> Br   | <sup>36</sup> <sub>36</sub> Kr    |                                   |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>37</sup> <sub>37</sub> Rb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <sup>38</sup> <sub>38</sub> Sr | <sup>39</sup> <sub>39</sub> Y  | <sup>40</sup> <sub>40</sub> Zr | <sup>41</sup> <sub>41</sub> Nb   | <sup>42</sup> <sub>42</sub> Mo   | <sup>43</sup> <sub>43</sub> Tc   | <sup>44</sup> <sub>44</sub> Ru   | <sup>45</sup> <sub>45</sub> Rh   | <sup>46</sup> <sub>46</sub> Pd   | <sup>47</sup> <sub>47</sub> Ag   | <sup>48</sup> <sub>48</sub> Cd   | <sup>49</sup> <sub>49</sub> In   | <sup>50</sup> <sub>50</sub> Sn    | <sup>51</sup> <sub>51</sub> Sb   | <sup>52</sup> <sub>52</sub> Te    | <sup>53</sup> <sub>53</sub> I    | <sup>54</sup> <sub>54</sub> Xe    |                                   |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>55</sup> <sub>55</sub> Cs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <sup>56</sup> <sub>56</sub> Ba |                                |                                | <sup>72</sup> <sub>72</sub> Hf   | <sup>73</sup> <sub>73</sub> Ta   | <sup>74</sup> <sub>74</sub> W    | <sup>75</sup> <sub>75</sub> Re   | <sup>76</sup> <sub>76</sub> Os   | <sup>77</sup> <sub>77</sub> Ir   | <sup>78</sup> <sub>78</sub> Pt   | <sup>79</sup> <sub>79</sub> Au   | <sup>80</sup> <sub>80</sub> Hg   | <sup>81</sup> <sub>81</sub> Tl    | <sup>82</sup> <sub>82</sub> Pb   | <sup>83</sup> <sub>83</sub> Bi    | <sup>84</sup> <sub>84</sub> Po   | <sup>85</sup> <sub>85</sub> At    | <sup>86</sup> <sub>86</sub> Rn    |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
| <sup>87</sup> <sub>87</sub> Fr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <sup>88</sup> <sub>88</sub> Ra |                                |                                | <sup>102</sup> <sub>102</sub> Rf | <sup>103</sup> <sub>103</sub> Db | <sup>104</sup> <sub>104</sub> Sg | <sup>105</sup> <sub>105</sub> Bh | <sup>106</sup> <sub>106</sub> Hs | <sup>107</sup> <sub>107</sub> Mt | <sup>108</sup> <sub>108</sub> Ds | <sup>109</sup> <sub>109</sub> Rg | <sup>110</sup> <sub>110</sub> Cn | <sup>111</sup> <sub>111</sub> Uut | <sup>112</sup> <sub>112</sub> Fl | <sup>113</sup> <sub>113</sub> Uup | <sup>114</sup> <sub>114</sub> Lv | <sup>115</sup> <sub>115</sub> Uus | <sup>116</sup> <sub>116</sub> Uuo |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                |                               |                                |                                |                                |                                |                                |                                |                                |                                  |                                  |                                  |                                  |
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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 |

# Genral Chemistry Study Guide

**P. W. Atkins,J. A. Beran,David Becker**



## General Chemistry Study Guide:

**Study Guide for Ebbing/Gammons General Chemistry** Darrell Ebbing, Steven D. Gammon, 2016-02-05 The perfect way to prepare for exams build problem solving skills and get the grade you want This guide reinforces your understanding of major concepts learning objectives and key terms presented in your text and further develops your problem solving skills Each chapter features both a diagnostic pre test and post test additional practice problems and their worked out solutions and cumulative unit exams

**ACS General Chemistry Study Guide - ACS Exam Prep Secrets, Full-Length Practice Test, Detailed Answer Explanations: [Includes Step-By-Step Video Tutor]** Matthew Bowling, 2023-07-11 Mometrix Test Preparation's ACS General Chemistry Study Guide ACS Exam Prep Secrets is the ideal prep solution for anyone who wants to pass their ACS General Chemistry Exam The exam is extremely challenging and thorough test preparation is essential for success Our study guide includes Practice test questions with detailed answer explanations Step by step video tutorials to help you master difficult concepts Tips and strategies to help you get your best test performance A complete review of all general chemistry test sections Mometrix Test Preparation is not affiliated with or endorsed by any official testing organization All organizational and test names are trademarks of their respective owners The Mometrix guide is filled with the critical information you will need in order to do well on your general chemistry exam the concepts procedures principles and vocabulary that the American Chemical Society ACS Examinations Institute expects you to have mastered before sitting for your exam Test sections include Atoms Properties of Matter Bonding and Intermolecular Interactions Reactions Kinetics and Equilibrium Acids and Bases Thermodynamics Electrochemistry Nuclear Chemistry Safety Math and Data in the Laboratory and much more Our guide is full of specific and detailed information that will be key to passing your exam Concepts and principles aren't simply named or described in passing but are explained in detail The Mometrix general chemistry study guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it Because it's written with an eye for both technical accuracy and accessibility you will not have to worry about getting lost in dense academic language Any test prep guide is only as good as its practice questions and answer explanations and that's another area where our guide stands out The Mometrix test prep team has provided plenty of general chemistry practice test questions to prepare you for what to expect on the actual exam Each answer is explained in depth in order to make the principles and reasoning behind it crystal clear Many concepts include links to online review videos where you can watch our instructors break down the topics so the material can be quickly grasped Examples are worked step by step so you see exactly what to do We've helped hundreds of thousands of people pass standardized tests and achieve their education and career goals We've done this by setting high standards for Mometrix Test Preparation guides and our ACS General Chemistry Study Guide ACS Exam Prep Secrets is no exception It's an excellent investment in your future Get the general chemistry review you need to be successful on your exam

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**General Chemistry** National Learning Corporation, 2019-02 The Regents Excelsior College Examinations E RCE offer you an opportunity to obtain recognition for college level learning The E RCE consists of exams designed to demonstrate achievement and mastery of various college level subjects such as the Arts and Sciences Business Criminal Justice Education Health and Nursing The General Chemistry Passbook R prepares you by sharpening your knowledge in advance of the exam and provides hundreds of multiple choice questions that include but are not limited to chemical reactions atomic structures chemical bonding liquids solids and gases energy balance and more

## Decoding **Genral Chemistry Study Guide**: Revealing the Captivating Potential of Verbal Expression

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