

# Chemistry Study Guide

# Periodic Table of the Elements

|                                                         |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                         |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                        |                                                         |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
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| <small>1</small><br><b>H</b><br><small>1.008</small>    |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                         |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                        | <small>2</small><br><b>He</b><br><small>4.003</small>   |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>3</small><br><b>Li</b><br><small>6.941</small>   | <small>4</small><br><b>Be</b><br><small>9.012</small>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                         |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                        |                                                         | <small>5</small><br><b>B</b><br><small>10.81</small>   | <small>6</small><br><b>C</b><br><small>12.01</small>   | <small>7</small><br><b>N</b><br><small>14.01</small>  | <small>8</small><br><b>O</b><br><small>15.99</small>  | <small>9</small><br><b>F</b><br><small>18.99</small>   | <small>10</small><br><b>Ne</b><br><small>20.18</small> |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>11</small><br><b>Na</b><br><small>22.99</small>  | <small>12</small><br><b>Mg</b><br><small>24.31</small>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                         |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                        |                                                         | <small>13</small><br><b>Al</b><br><small>26.98</small> | <small>14</small><br><b>Si</b><br><small>28.09</small> | <small>15</small><br><b>P</b><br><small>30.97</small> | <small>16</small><br><b>S</b><br><small>32.06</small> | <small>17</small><br><b>Cl</b><br><small>35.45</small> | <small>18</small><br><b>Ar</b><br><small>39.95</small> |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>19</small><br><b>K</b><br><small>39.09</small>   | <small>20</small><br><b>Ca</b><br><small>40.08</small>  | <small>21</small><br><b>Sc</b><br><small>44.96</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <small>22</small><br><b>Ti</b><br><small>47.88</small> | <small>23</small><br><b>V</b><br><small>50.94</small>   | <small>24</small><br><b>Cr</b><br><small>51.99</small>  | <small>25</small><br><b>Mn</b><br><small>54.94</small> | <small>26</small><br><b>Fe</b><br><small>55.85</small>  | <small>27</small><br><b>Co</b><br><small>58.93</small>  | <small>28</small><br><b>Ni</b><br><small>58.71</small>  | <small>29</small><br><b>Cu</b><br><small>63.55</small>  | <small>30</small><br><b>Zn</b><br><small>65.38</small>  | <small>31</small><br><b>Ga</b><br><small>69.72</small>  | <small>32</small><br><b>Ge</b><br><small>72.64</small>  | <small>33</small><br><b>As</b><br><small>74.92</small>  | <small>34</small><br><b>Se</b><br><small>78.96</small>  | <small>35</small><br><b>Br</b><br><small>79.90</small> | <small>36</small><br><b>Kr</b><br><small>83.80</small>  |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>37</small><br><b>Rb</b><br><small>85.47</small>  | <small>38</small><br><b>Sr</b><br><small>87.62</small>  | <small>39</small><br><b>Y</b><br><small>88.91</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <small>40</small><br><b>Zr</b><br><small>91.22</small> | <small>41</small><br><b>Nb</b><br><small>92.91</small>  | <small>42</small><br><b>Mo</b><br><small>95.94</small>  | <small>43</small><br><b>Tc</b><br><small>98.91</small> | <small>44</small><br><b>Ru</b><br><small>101.07</small> | <small>45</small><br><b>Rh</b><br><small>102.91</small> | <small>46</small><br><b>Pd</b><br><small>106.42</small> | <small>47</small><br><b>Ag</b><br><small>107.87</small> | <small>48</small><br><b>Cd</b><br><small>112.41</small> | <small>49</small><br><b>In</b><br><small>114.82</small> | <small>50</small><br><b>Sn</b><br><small>118.71</small> | <small>51</small><br><b>Sb</b><br><small>121.76</small> | <small>52</small><br><b>Te</b><br><small>127.60</small> | <small>53</small><br><b>I</b><br><small>126.91</small> | <small>54</small><br><b>Xe</b><br><small>131.29</small> |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>55</small><br><b>Cs</b><br><small>132.91</small> | <small>56</small><br><b>Ba</b><br><small>137.33</small> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        | <small>57</small><br><b>Hf</b><br><small>178.49</small> | <small>58</small><br><b>Ta</b><br><small>180.95</small> | <small>59</small><br><b>W</b><br><small>183.84</small> | <small>60</small><br><b>Re</b><br><small>186.21</small> | <small>61</small><br><b>Os</b><br><small>190.23</small> | <small>62</small><br><b>Ir</b><br><small>192.22</small> | <small>63</small><br><b>Pt</b><br><small>195.08</small> | <small>64</small><br><b>Au</b><br><small>196.97</small> | <small>65</small><br><b>Hg</b><br><small>200.59</small> | <small>66</small><br><b>Tl</b><br><small>204.38</small> | <small>67</small><br><b>Pb</b><br><small>207.2</small>  | <small>68</small><br><b>Bi</b><br><small>208.98</small> | <small>69</small><br><b>Po</b><br><small>209</small>   | <small>70</small><br><b>At</b><br><small>210</small>    | <small>71</small><br><b>Rn</b><br><small>222</small>   |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <small>87</small><br><b>Fr</b><br><small>223</small>    | <small>88</small><br><b>Ra</b><br><small>226</small>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        | <small>89</small><br><b>Rf</b><br><small>261</small>    | <small>90</small><br><b>Db</b><br><small>262</small>    | <small>91</small><br><b>Sg</b><br><small>266</small>   | <small>92</small><br><b>Bh</b><br><small>264</small>    | <small>93</small><br><b>Hs</b><br><small>277</small>    | <small>94</small><br><b>Mt</b><br><small>268</small>    | <small>95</small><br><b>Ds</b><br><small>271</small>    | <small>96</small><br><b>Rg</b><br><small>272</small>    | <small>97</small><br><b>Cn</b><br><small>285</small>    | <small>98</small><br><b>Uut</b><br><small>289</small>   | <small>99</small><br><b>Fl</b><br><small>288</small>    | <small>100</small><br><b>Uup</b><br><small>289</small>  | <small>101</small><br><b>Lv</b><br><small>293</small>  | <small>102</small><br><b>Uus</b><br><small>286</small>  | <small>103</small><br><b>Uuo</b><br><small>294</small> |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
|                                                         |                                                         | <div> <div> Lanthanide Series </div> <table> <tr> <td><b>La</b></td><td><b>Ce</b></td><td><b>Pr</b></td><td><b>Nd</b></td><td><b>Pm</b></td><td><b>Sm</b></td><td><b>Eu</b></td><td><b>Gd</b></td><td><b>Tb</b></td><td><b>Dy</b></td><td><b>Ho</b></td><td><b>Er</b></td><td><b>Tm</b></td><td><b>Yb</b></td><td><b>Lu</b></td> </tr> </table> </div> <div> <div> Actinide Series </div> <table> <tr> <td><b>Ac</b></td><td><b>Th</b></td><td><b>Pa</b></td><td><b>U</b></td><td><b>Np</b></td><td><b>Pu</b></td><td><b>Am</b></td><td><b>Cm</b></td><td><b>Bk</b></td><td><b>Cf</b></td><td><b>Es</b></td><td><b>Fm</b></td><td><b>Md</b></td><td><b>No</b></td><td><b>Lr</b></td> </tr> </table> </div> |                                                        |                                                         |                                                         |                                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                         |                                                        |                                                         |                                                        | <b>La</b>                                              | <b>Ce</b>                                             | <b>Pr</b>                                             | <b>Nd</b>                                              | <b>Pm</b>                                              | <b>Sm</b> | <b>Eu</b> | <b>Gd</b> | <b>Tb</b> | <b>Dy</b> | <b>Ho</b> | <b>Er</b> | <b>Tm</b> | <b>Yb</b> | <b>Lu</b> | <b>Ac</b> | <b>Th</b> | <b>Pa</b> | <b>U</b> | <b>Np</b> | <b>Pu</b> | <b>Am</b> | <b>Cm</b> | <b>Bk</b> | <b>Cf</b> | <b>Es</b> | <b>Fm</b> | <b>Md</b> | <b>No</b> | <b>Lr</b> |
| <b>La</b>                                               | <b>Ce</b>                                               | <b>Pr</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Nd</b>                                              | <b>Pm</b>                                               | <b>Sm</b>                                               | <b>Eu</b>                                              | <b>Gd</b>                                               | <b>Tb</b>                                               | <b>Dy</b>                                               | <b>Ho</b>                                               | <b>Er</b>                                               | <b>Tm</b>                                               | <b>Yb</b>                                               | <b>Lu</b>                                               |                                                         |                                                        |                                                         |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |
| <b>Ac</b>                                               | <b>Th</b>                                               | <b>Pa</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>U</b>                                               | <b>Np</b>                                               | <b>Pu</b>                                               | <b>Am</b>                                              | <b>Cm</b>                                               | <b>Bk</b>                                               | <b>Cf</b>                                               | <b>Es</b>                                               | <b>Fm</b>                                               | <b>Md</b>                                               | <b>No</b>                                               | <b>Lr</b>                                               |                                                         |                                                        |                                                         |                                                        |                                                        |                                                       |                                                       |                                                        |                                                        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |           |           |

## 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 |

# Basic Chemistry Study Guide Answers

**AN Whitehead**



## **Basic Chemistry Study Guide Answers:**

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*Basic Concepts of Chemistry, Study Guide* Leo J. Malone, 1989-02-21 This Third Edition revised to provide smoother transitions between topics employs a concise yet informal approach to basic chemistry organized to help students employ basic math skills and problem solving strategies Writing style is straightforward and presentation incorporates many concrete analogies to clarify new concepts Includes many illustrative worked examples

**Basic Chemistry** Karen C. Timberlake, 2014

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