

# Chemistry Study Guide

### Periodic Table of the Elements

|                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| <div><div>1</div><div>H</div><div>1.008</div></div>    | <div><div>2</div><div>He</div><div>4.003</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        | <div><div>18</div><div>Ar</div><div>39.948</div></div> |                                                        |                                                        |                                                      |                                                       |                                                        |
| <div><div>3</div><div>Li</div><div>6.941</div></div>   | <div><div>4</div><div>Be</div><div>9.012</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        | <div><div>5</div><div>B</div><div>10.811</div></div>   | <div><div>6</div><div>C</div><div>12.011</div></div>   | <div><div>7</div><div>N</div><div>14.007</div></div>   | <div><div>8</div><div>O</div><div>15.999</div></div> | <div><div>9</div><div>F</div><div>18.998</div></div>  | <div><div>10</div><div>Ne</div><div>20.180</div></div> |
| <div><div>11</div><div>Na</div><div>22.990</div></div> | <div><div>12</div><div>Mg</div><div>24.305</div></div> |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        | <div><div>13</div><div>Al</div><div>26.982</div></div> | <div><div>14</div><div>Si</div><div>28.086</div></div> | <div><div>15</div><div>P</div><div>30.974</div></div>  | <div><div>16</div><div>S</div><div>32.06</div></div> | <div><div>17</div><div>Cl</div><div>35.45</div></div> | <div><div>18</div><div>Ar</div><div>39.948</div></div> |
| <div><div>19</div><div>K</div><div>39.098</div></div>  | <div><div>20</div><div>Ca</div><div>40.078</div></div> | <div><div>21</div><div>Sc</div><div>44.956</div></div> | <div><div>22</div><div>Ti</div><div>47.88</div></div>  | <div><div>23</div><div>V</div><div>50.942</div></div>  | <div><div>24</div><div>Cr</div><div>51.996</div></div> | <div><div>25</div><div>Mn</div><div>54.938</div></div> | <div><div>26</div><div>Fe</div><div>55.845</div></div> | <div><div>27</div><div>Co</div><div>58.933</div></div> | <div><div>28</div><div>Ni</div><div>58.69</div></div>  | <div><div>29</div><div>Cu</div><div>63.546</div></div> | <div><div>30</div><div>Zn</div><div>65.38</div></div>  | <div><div>31</div><div>Ga</div><div>69.723</div></div> | <div><div>32</div><div>Ge</div><div>72.63</div></div>  | <div><div>33</div><div>As</div><div>74.922</div></div> | <div><div>34</div><div>Se</div><div>78.96</div></div> | <div><div>35</div><div>Br</div><div>79.904</div></div> | <div><div>36</div><div>Kr</div><div>83.80</div></div>  |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
| <div><div>37</div><div>Rb</div><div>85.468</div></div> | <div><div>38</div><div>Sr</div><div>87.62</div></div>  | <div><div>39</div><div>Y</div><div>88.906</div></div>  | <div><div>40</div><div>Zr</div><div>91.224</div></div> | <div><div>41</div><div>Nb</div><div>92.906</div></div> | <div><div>42</div><div>Mo</div><div>95.94</div></div>  | <div><div>43</div><div>Tc</div><div>98.906</div></div> | <div><div>44</div><div>Ru</div><div>101.07</div></div> | <div><div>45</div><div>Rh</div><div>102.91</div></div> | <div><div>46</div><div>Pd</div><div>106.42</div></div> | <div><div>47</div><div>Ag</div><div>107.87</div></div> | <div><div>48</div><div>Cd</div><div>112.41</div></div> | <div><div>49</div><div>In</div><div>114.82</div></div> | <div><div>50</div><div>Sn</div><div>118.71</div></div> | <div><div>51</div><div>Sb</div><div>121.76</div></div> | <div><div>52</div><div>Te</div><div>127.6</div></div> | <div><div>53</div><div>I</div><div>126.91</div></div>  | <div><div>54</div><div>Xe</div><div>131.29</div></div> |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
| <div><div>55</div><div>Cs</div><div>132.91</div></div> | <div><div>56</div><div>Ba</div><div>137.33</div></div> |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        | <div><div>57</div><div>Tl</div><div>204.38</div></div> | <div><div>58</div><div>Pb</div><div>207.2</div></div>  | <div><div>59</div><div>Bi</div><div>208.98</div></div> | <div><div>60</div><div>Po</div><div>209</div></div>  | <div><div>61</div><div>At</div><div>210</div></div>   | <div><div>62</div><div>Rn</div><div>222</div></div>    |
| <div><div>57</div><div>Fr</div><div>223</div></div>    | <div><div>58</div><div>Ra</div><div>226</div></div>    |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        | <div><div>63</div><div>Uut</div><div>288</div></div>   | <div><div>64</div><div>Fl</div><div>289</div></div>    | <div><div>65</div><div>Uup</div><div>289</div></div>   | <div><div>66</div><div>Lv</div><div>293</div></div>  | <div><div>67</div><div>Uus</div><div>286</div></div>  | <div><div>68</div><div>Uuo</div><div>293</div></div>   |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></div>   |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                        |                                                       |                                                        |                                                        |                                                        |                                                        |                                                        |                                                      |                                                       |                                                        |
|                                                        |                                                        | <div><div>Periodic Table of the Elements</div></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 |

# Section 2 nuclear Chemistry Study Guide Key

**Kenneth W. Raymond**



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