

# Chemistry Study Guide

# Periodic Table of the Elements

<small>1</small> <b>H</b> <small>1.008</small>																	<small>2</small> <b>He</b> <small>4.003</small>																															
<small>3</small> <b>Li</b> <small>6.941</small>	<small>4</small> <b>Be</b> <small>9.012</small>																	<small>5</small> <b>B</b> <small>10.811</small>	<small>6</small> <b>C</b> <small>12.011</small>	<small>7</small> <b>N</b> <small>14.007</small>	<small>8</small> <b>O</b> <small>15.999</small>	<small>9</small> <b>F</b> <small>18.998</small>	<small>10</small> <b>Ne</b> <small>20.180</small>																									
<small>11</small> <b>Na</b> <small>22.990</small>	<small>12</small> <b>Mg</b> <small>24.305</small>																	<small>13</small> <b>Al</b> <small>26.982</small>	<small>14</small> <b>Si</b> <small>28.086</small>	<small>15</small> <b>P</b> <small>30.974</small>	<small>16</small> <b>S</b> <small>32.065</small>	<small>17</small> <b>Cl</b> <small>35.453</small>	<small>18</small> <b>Ar</b> <small>39.948</small>																									
<small>19</small> <b>K</b> <small>39.098</small>	<small>20</small> <b>Ca</b> <small>40.078</small>	<small>21</small> <b>Sc</b> <small>44.956</small>	<small>22</small> <b>Ti</b> <small>47.883</small>	<small>23</small> <b>V</b> <small>50.942</small>	<small>24</small> <b>Cr</b> <small>51.996</small>	<small>25</small> <b>Mn</b> <small>54.938</small>	<small>26</small> <b>Fe</b> <small>55.845</small>	<small>27</small> <b>Co</b> <small>58.933</small>	<small>28</small> <b>Ni</b> <small>58.693</small>	<small>29</small> <b>Cu</b> <small>63.546</small>	<small>30</small> <b>Zn</b> <small>65.38</small>	<small>31</small> <b>Ga</b> <small>69.723</small>	<small>32</small> <b>Ge</b> <small>72.64</small>	<small>33</small> <b>As</b> <small>74.922</small>	<small>34</small> <b>Se</b> <small>78.96</small>	<small>35</small> <b>Br</b> <small>79.904</small>	<small>36</small> <b>Kr</b> <small>83.80</small>																															
<small>37</small> <b>Rb</b> <small>85.468</small>	<small>38</small> <b>Sr</b> <small>87.62</small>	<small>39</small> <b>Y</b> <small>88.906</small>	<small>40</small> <b>Zr</b> <small>91.224</small>	<small>41</small> <b>Nb</b> <small>92.906</small>	<small>42</small> <b>Mo</b> <small>95.94</small>	<small>43</small> <b>Tc</b> <small>98.906</small>	<small>44</small> <b>Ru</b> <small>101.07</small>	<small>45</small> <b>Rh</b> <small>102.91</small>	<small>46</small> <b>Pd</b> <small>106.42</small>	<small>47</small> <b>Ag</b> <small>107.87</small>	<small>48</small> <b>Cd</b> <small>112.41</small>	<small>49</small> <b>In</b> <small>114.82</small>	<small>50</small> <b>Sn</b> <small>118.71</small>	<small>51</small> <b>Sb</b> <small>121.76</small>	<small>52</small> <b>Te</b> <small>127.6</small>	<small>53</small> <b>I</b> <small>126.91</small>	<small>54</small> <b>Xe</b> <small>131.29</small>																															
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<small>87</small> <b>Fr</b> <small>223</small>	<small>88</small> <b>Ra</b> <small>226</small>			<small>89</small> <b>Rf</b> <small>261</small>	<small>90</small> <b>Db</b> <small>262</small>	<small>91</small> <b>Sg</b> <small>266</small>	<small>92</small> <b>Bh</b> <small>264</small>	<small>93</small> <b>Hs</b> <small>277</small>	<small>94</small> <b>Mt</b> <small>268</small>	<small>95</small> <b>Ds</b> <small>271</small>	<small>96</small> <b>Rg</b> <small>272</small>	<small>97</small> <b>Cn</b> <small>285</small>	<small>98</small> <b>Uut</b> <small>289</small>	<small>99</small> <b>Fl</b> <small>288</small>	<small>100</small> <b>Uup</b> <small>289</small>	<small>101</small> <b>Lv</b> <small>293</small>	<small>102</small> <b>Uus</b> <small>294</small>	<small>103</small> <b>Uuo</b> <small>294</small>																														
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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

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and become the body and blood of christ 1 2 as defined by the church at the council of trent in the mass the same christ who

offered himself once in a bloody manner on the altar of the cross is present and offered

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effect that for the faithful who are properly disposed almost every event in life is sanctified by the divine grace that flows

from the paschal mystery and because the eucharist is the sacrament of sacraments the missal

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web throughout the sacramentary additional texts have been supplied newly composed in english which reflect the genius of the english language and the shared literary heritage and religious experience of the english speaking world in the order of mass additional prefaces and interpolations for the eucharistic

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web it is also assumed that all communicants present at mass priest celebrant deacon ministers and all in the assembly will receive the sacrament from bread and wine consecrated at that mass 85 281 321 just as the priest celebrant must do 85 243 244

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web 704 the order of mass after the sanctus has been completed the priest continues the eucharistic prayer with hands outstretched the words in brackets may be omitted all merciful father p we come before you with praise and thanksgiving through jesus christ your son he joins his hands and making the sign of the cross once over both bread and

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web may 25 2010 a final note with the issuance of the new translation the term roman missal will replace sacramentary for the official book of prayers said at mass

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