

# PERIODIC CHART OF THE ELEMENTS

<p>1/Ia</p> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td style="text-align: center;">+1 <b>1</b> <b>H</b> 1.00794 1</td></tr> <tr><td style="text-align: center;">+1 <b>3</b> <b>Li</b> 6.941 2-1</td><td style="text-align: center;">+2 <b>4</b> <b>Be</b> 9.012182 2-2</td></tr> <tr><td style="text-align: center;">+1 <b>11</b> <b>Na</b> 22.98976928 2-8-1</td><td style="text-align: center;">+2 <b>12</b> <b>Mg</b> 24.3050 2-8-2</td></tr> </table> <p style="text-align: center;">KEY</p> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td style="text-align: center;">+1 <b>79</b> <b>Au</b></td></tr> <tr><td style="text-align: center;">196.966569</td></tr> <tr><td style="text-align: center;">-32-18-1</td></tr> </table> <p style="text-align: left;">Common Oxidation States →</p> <p style="text-align: right;">← Atomic Number</p> <p style="text-align: right;">← Atomic Symbol</p> <p style="text-align: left;">Atomic Weight →</p> <p style="text-align: left;">Electron Configuration of Outer Shells →</p>																+1 <b>1</b> <b>H</b> 1.00794 1	+1 <b>3</b> <b>Li</b> 6.941 2-1	+2 <b>4</b> <b>Be</b> 9.012182 2-2	+1 <b>11</b> <b>Na</b> 22.98976928 2-8-1	+2 <b>12</b> <b>Mg</b> 24.3050 2-8-2	+1 <b>79</b> <b>Au</b>	196.966569	-32-18-1	13/IIIA		14/IVA		15/VA		16/VIA		17/VIIA		18/VIIIA/0	
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+1 <b>19</b> <b>K</b> 39.0983 -8-8-1	+2 <b>20</b> <b>Ca</b> 40.078 -8-8-2	+3 <b>21</b> <b>Sc</b> 44.955912 -8-9-2	+2 <b>22</b> <b>Ti</b> 47.867 -8-10-2	+3 <b>23</b> <b>V</b> 50.9415 -8-11-2	+2 <b>24</b> <b>Cr</b> 51.9961 -8-13-1	+2 <b>25</b> <b>Mn</b> 54.938045 -8-13-2	+2 <b>26</b> <b>Fe</b> 55.845 -8-14-2	+2 <b>27</b> <b>Co</b> 58.933195 -8-15-2	+2 <b>28</b> <b>Ni</b> 58.6934 -8-16-2	+1 <b>29</b> <b>Cu</b> 63.546 -8-18-1	+2 <b>30</b> <b>Zn</b> 65.409 -8-18-2	+3 <b>31</b> <b>Ga</b> 69.723 -8-18-3	+2 <b>32</b> <b>Ge</b> 72.64 -8-18-4	+3 <b>33</b> <b>As</b> 74.92160 -8-18-5	+4 <b>34</b> <b>Se</b> 78.96 -8-18-6	+1 <b>35</b> <b>Br</b> 79.904 -8-18-7	0 <b>36</b> <b>Kr</b> 83.798 -8-18-8																		
+1 <b>37</b> <b>Rb</b> 85.4678 -18-8-1	+2 <b>38</b> <b>Sr</b> 87.62 -18-8-2	+3 <b>39</b> <b>Y</b> 88.90585 -18-9-2	+4 <b>40</b> <b>Zr</b> 91.224 -18-10-2	+5 <b>41</b> <b>Nb</b> 92.90638 -18-12-1	+6 <b>42</b> <b>Mo</b> 95.94 -18-13-1	+4 <b>43</b> <b>Tc</b> (97.9072) -18-13-2	+3 <b>44</b> <b>Ru</b> 101.07 -18-15-1	+3 <b>45</b> <b>Rh</b> 102.90550 -18-16-1	+2 <b>46</b> <b>Pd</b> 106.42 -18-18-0	+1 <b>47</b> <b>Ag</b> 107.8682 -18-18-1	+2 <b>48</b> <b>Cd</b> 112.411 -18-18-2	+3 <b>49</b> <b>In</b> 114.818 -18-18-3	+2 <b>50</b> <b>Sn</b> 118.710 -18-18-4	+3 <b>51</b> <b>Sb</b> 121.760 -18-18-5	+4 <b>52</b> <b>Te</b> 127.60 -18-18-6	+1 <b>53</b> <b>I</b> 126.90447 -18-18-7	0 <b>54</b> <b>Xe</b> 131.293 -18-18-8																		
+1 <b>55</b> <b>Cs</b> 132.9054519 -18-8-1	+2 <b>56</b> <b>Ba</b> 137.327 -18-8-2	See Lanthanides		+4 <b>72</b> <b>Hf</b> 178.49 -32-10-2	+5 <b>73</b> <b>Ta</b> 180.94788 -32-11-2	+6 <b>74</b> <b>W</b> 183.84 -32-12-2	+4 <b>75</b> <b>Re</b> 186.207 -32-13-2	+3 <b>76</b> <b>Os</b> 190.23 -32-14-2	+3 <b>77</b> <b>Ir</b> 192.217 -32-15-2	+2 <b>78</b> <b>Pt</b> 195.084 -32-16-2	+1 <b>79</b> <b>Au</b> 196.966569 -32-18-1	+1 <b>80</b> <b>Hg</b> 200.59 -32-18-2	+1 <b>81</b> <b>Tl</b> 204.3833 -32-18-3	+2 <b>82</b> <b>Pb</b> 207.2 -32-18-4	+3 <b>83</b> <b>Bi</b> 208.98040 -32-18-5	+2 <b>84</b> <b>Po</b> (208.9824) -32-18-6	+1 <b>85</b> <b>At</b> (209.9871) -32-18-7	0 <b>86</b> <b>Rn</b> (222.0176) -32-18-8																	
+1 <b>87</b> <b>Fr</b> (223.0197) -18-8-1	+2 <b>88</b> <b>Ra</b> (226.0254) -18-8-2	See Actinides		+4 <b>104</b> <b>Rf</b> (261.1088) -32-10-2	+5 <b>105</b> <b>Db</b> (262.1141) -32-11-2	+6 <b>106</b> <b>Sg</b> (266.1219) -32-12-2	+4 <b>107</b> <b>Bh</b> (264.12) -32-13-2	+5 <b>108</b> <b>Hs</b> -32-14-2	+2 <b>109</b> <b>Mt</b> (268.1388) -32-15-2	+3 <b>110</b> <b>Ds</b>	+3 <b>111</b> <b>Rg</b> (272.1535)	+3 <b>112</b> <b>*Uub</b>	+3 <b>114</b> <b>*Uuq</b>	+3 <b>116</b> <b>*Uuh</b>	Noble Gases																				

Lanthanides		+3 <b>57</b> <b>La</b> 138.90547 -18-9-2	+3 <b>58</b> <b>Ce</b> 140.116 -20-8-2	+3 <b>59</b> <b>Pr</b> 140.90765 -21-8-2	+3 <b>60</b> <b>Nd</b> 144.242 -22-8-2	+3 <b>61</b> <b>Pm</b> (144.9127) -23-8-2	+2 <b>62</b> <b>Sm</b> 150.36 -24-8-2	+2 <b>63</b> <b>Eu</b> 151.964 -25-8-2	+3 <b>64</b> <b>Gd</b> 157.25 -25-9-2	+3 <b>65</b> <b>Tb</b> 158.92535 -27-8-2	+3 <b>66</b> <b>Dy</b> 162.500 -28-8-2	+3 <b>67</b> <b>Ho</b> 164.93032 -29-8-2	+3 <b>68</b> <b>Er</b> 167.259 -30-8-2	+3 <b>69</b> <b>Tm</b> 168.93421 -31-8-2	+2 <b>70</b> <b>Yb</b> 173.04 -32-8-2	+3 <b>71</b> <b>Lu</b> 174.967 -32-9-2
Actinides		+3 <b>89</b> <b>Ac</b> (227.0277) -18-9-2	+4 <b>90</b> <b>Th</b> 232.03806 -18-10-2	+5 <b>91</b> <b>Pa</b> (231.03588) -20-9-2	+3 <b>92</b> <b>U</b> 238.02891 -21-9-2	+4 <b>93</b> <b>Np</b> (237.0482) -22-9-2	+3 <b>94</b> <b>Pu</b> (244.0642) -24-8-2	+3 <b>95</b> <b>Am</b> (243.0614) -25-8-2	+3 <b>96</b> <b>Cm</b> (247.0704) -25-9-2	+3 <b>97</b> <b>Bk</b> (247.0703) -27-8-2	+3 <b>98</b> <b>Cf</b> (251.0796) -28-8-2	+3 <b>99</b> <b>Es</b> (252.0830) -29-8-2	+3 <b>100</b> <b>Fm</b> (257.0951) -30-8-2	+2 <b>101</b> <b>Md</b> (258.0984) -31-8-2	+2 <b>102</b> <b>No</b> (259.1010) -32-8-2	+3 <b>103</b> <b>Lr</b> (262.1097) -32-9-2

Note: Atomic weights are based on the 2001 IUPAC Atomic Weights of the Elements and the 2005 Revised IUPAC Periodic Table of the Elements. Values in parenthesis are used for certain radioactive elements; this value is the relative atomic mass of the isotope of that element of longest known half life.

Note: Elements with atomic numbers 112 and above have been reported but not fully authenticated.  
\* Symbols based on IUPAC systematic names.