

# Periodic Table of the Elements

*Light Metals*

*Nonmetals*

GROUP	<b>Ia</b>		<b>IIa</b>		<i>Heavy Metals</i>								<b>IIIa</b>						<b>IVa</b>	<b>Va</b>	<b>VIa</b>	<b>VIIa</b>	<b>VIIIa</b>		
<b>PERIOD</b>	<b>1</b>	<b>H</b> <small>Hydrogen</small> 1.008											<b>Atomic Symbol</b>											<b>He</b> <small>Helium</small> 4.003	
	<b>2</b>	<b>Li</b> <small>Lithium</small> 6.94	<b>Be</b> <small>Beryllium</small> 9.013										<b>Element Name</b>												<b>Ne</b> <small>Neon</small> 20.183
	<b>3</b>	<b>Na</b> <small>Sodium</small> 22.991	<b>Mg</b> <small>Magnesium</small> 24.32										<b>Atomic Weight (***)</b>												<b>Ar</b> <small>Argon</small> 39.944
	<b>4</b>	<b>K</b> <small>Potassium</small> 39.1	<b>Ca</b> <small>Calcium</small> 40.08	<b>Sc</b> <small>Scandium</small> 44.96	<b>Ti</b> <small>Titanium</small> 47.9	<b>V</b> <small>Vanadium</small> 50.95	<b>Cr</b> <small>Chromium</small> 52.01	<b>Mn</b> <small>Manganese</small> 54.94	<b>Fe</b> <small>Iron</small> 55.85	<b>Co</b> <small>Cobalt</small> 58.94	<b>Ni</b> <small>Nickel</small> 58.71	<b>Cu</b> <small>Copper</small> 63.54	<b>Zn</b> <small>Zinc</small> 65.38	<b>Ga</b> <small>Gallium</small> 69.72	<b>Ge</b> <small>Germanium</small> 72.6	<b>As</b> <small>Arsenic</small> 74.91	<b>Se</b> <small>Selenium</small> 78.96	<b>Br</b> <small>Bromine</small> 79.916	<b>Kr</b> <small>Krypton</small> 83.8						
	<b>5</b>	<b>Rb</b> <small>Rubidium</small> 85.48	<b>Sr</b> <small>Strontium</small> 87.63	<b>Y</b> <small>Yttrium</small> 88.92	<b>Zr</b> <small>Zirconium</small> 91.22	<b>Nb</b> <small>Niobium</small> 92.91	<b>Mo</b> <small>Molybdenum</small> 95.95	<b>Tc</b> <small>Technetium</small> 99	<b>Ru</b> <small>Ruthenium</small> 101.1	<b>Rh</b> <small>Rhodium</small> 102.91	<b>Pd</b> <small>Palladium</small> 106.4	<b>Ag</b> <small>Silver</small> 107.88	<b>Cd</b> <small>Cadmium</small> 112.41	<b>In</b> <small>Indium</small> 114.82	<b>Sn</b> <small>Tin</small> 118.7	<b>Sb</b> <small>Antimony</small> 121.76	<b>Te</b> <small>Tellurium</small> 127.61	<b>I</b> <small>Iodine</small> 126.91	<b>Xe</b> <small>Xenon</small> 131.3						
	<b>6</b>	<b>Cs</b> <small>Cesium</small> 132.91	<b>Ba</b> <small>Barium</small> 137.56	<b>Lu</b> <small>Lutetium</small> 174.99	<b>Hf</b> <small>Hafnium</small> 178.5	<b>Ta</b> <small>Tantalum</small> 180.95	<b>W</b> <small>Tungsten</small> 183.86	<b>Re</b> <small>Rhenium</small> 186.22	<b>Os</b> <small>Osmium</small> 190.2	<b>Ir</b> <small>Iridium</small> 192.2	<b>Pt</b> <small>Platinum</small> 195.09	<b>Au</b> <small>Gold</small> 197	<b>Hg</b> <small>Mercury</small> 200.61	<b>Tl</b> <small>Thallium</small> 204.39	<b>Pb</b> <small>Lead</small> 207.21	<b>Bi</b> <small>Bismuth</small> 209	<b>Po</b> <small>Polonium</small> 210	<b>At</b> <small>Astatine</small> (210)	<b>Rn</b> <small>Radon</small> (222)						
	<b>7</b>	<b>Fr</b> <small>Franium</small> (223)	<b>Ra</b> <small>Radium</small> 226.05	<b>Lw</b> <small>Lawrencium</small> (260)	<b>Rf</b> <small>Rutherfordium</small> (261)	<b>Db</b> <small>Dubnium</small> (262)	<b>Sg</b> <small>Seaborgium</small> (263)	<b>Bh</b> <small>Bohrium</small> (262)	<b>Hs</b> <small>Hassium</small> (265)	<b>Mt</b> <small>Mitnerium</small> (266)	<b>*</b> (269)	<b>*</b> (272)	<b>*</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>					
	<b>87</b>	<b>88</b>	<b>103</b>	<b>104</b>	<b>105</b>	<b>106</b>	<b>107</b>	<b>108</b>	<b>109</b>	<b>110</b>	<b>111</b>	<b>112</b>	<b>113</b>	<b>114</b>	<b>115</b>	<b>116</b>	<b>117</b>	<b>118</b>							

(\*\*\*) Atomic Weights in parentheses indicate the weight of the most stable isotope)

\*\* Elements not yet discovered

\* Elements discovered but not yet officially named

**Lanthanide Series**

**Actinide Series**

<b>La</b> <small>Lanthanum</small> 138.92	<b>Ce</b> <small>Cerium</small> 140.13	<b>Pr</b> <small>Praseodymium</small> 140.92	<b>Nd</b> <small>Neodymium</small> 144.27	<b>Pm</b> <small>Promethium</small> 145	<b>Sm</b> <small>Samarium</small> 150.35	<b>Eu</b> <small>Europium</small> 152	<b>Gd</b> <small>Gadolinium</small> 157.26	<b>Tb</b> <small>Terbium</small> 158.93	<b>Dy</b> <small>Dysprosium</small> 162.51	<b>Ho</b> <small>Holmium</small> 164.94	<b>Er</b> <small>Erbium</small> 167.27	<b>Tm</b> <small>Thulium</small> 168.94	<b>Yb</b> <small>Ytterbium</small> 173.4
<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>
<b>Ac</b> <small>Actinium</small> 227	<b>Th</b> <small>Thorium</small> 232.05	<b>Pa</b> <small>Protactinium</small> 231	<b>U</b> <small>Uranium</small> 238.07	<b>Np</b> <small>Neptunium</small> 237	<b>Pu</b> <small>Plutonium</small> 242	<b>Am</b> <small>Americium</small> 243	<b>Cm</b> <small>Curium</small> 245	<b>Bk</b> <small>Berkelium</small> 249	<b>Cf</b> <small>Californium</small> 249	<b>Es</b> <small>Einsteinium</small> 255	<b>Fm</b> <small>Fermium</small> 255	<b>Md</b> <small>Mendelevium</small> 256	<b>No</b> <small>Nobelium</small> 253
<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>	<b>96</b>	<b>97</b>	<b>98</b>	<b>99</b>	<b>100</b>	<b>101</b>	<b>102</b>