

# Periodic Table of the Elements

1 <b>1</b> HYDROGEN <b>H</b> 1.0080 ± 0.0002																	18 <b>2</b> HELIUM <b>He</b> 4.0026 ± 0.0001
<b>3</b> LITHIUM <b>Li</b> 6.94 ± 0.06	<b>4</b> BERYLLIUM <b>Be</b> 9.0122 ± 0.0001											<b>5</b> BORON <b>B</b> 9.0122 ± 0.0001	<b>6</b> CARBON <b>C</b> 12.011 ± 0.002	<b>7</b> NITROGEN <b>N</b> 14.007 ± 0.001	<b>8</b> OXYGEN <b>O</b> 15.999 ± 0.001	<b>9</b> FLUORINE <b>F</b> 18.998 ± 0.001	<b>10</b> NEON <b>Ne</b> 20.180 ± 0.001
<b>11</b> SODIUM <b>Na</b> 22.990 ± 0.001	<b>12</b> MAGNESIUM <b>Mg</b> 24.305 ± 0.002											<b>13</b> ALUMINIUM <b>Al</b> 26.982 ± 0.001	<b>14</b> SILICON <b>Si</b> 28.085 ± 0.001	<b>15</b> PHOSPHORUS <b>P</b> 30.974 ± 0.001	<b>16</b> SULFUR <b>S</b> 32.06 ± 0.02	<b>17</b> CHLORINE <b>Cl</b> 35.45 ± 0.01	<b>18</b> ARGON <b>Ar</b> 39.95 ± 0.16
<b>19</b> POTASSIUM <b>K</b> 39.098 ± 0.001	<b>20</b> CALCIUM <b>Ca</b> 40.078 ± 0.004	<b>21</b> SCANDIUM <b>Sc</b> 44.956 ± 0.001	<b>22</b> TITANIUM <b>Ti</b> 47.867 ± 0.001	<b>23</b> VANADIUM <b>V</b> 50.942 ± 0.001	<b>24</b> CHROMIUM <b>Cr</b> 51.996 ± 0.001	<b>25</b> MANGANESE <b>Mn</b> 54.938 ± 0.001	<b>26</b> IRON <b>Fe</b> 55.845 ± 0.002	<b>27</b> COBALT <b>Co</b> 58.933 ± 0.001	<b>28</b> NICKEL <b>Ni</b> 58.693 ± 0.001	<b>29</b> COPPER <b>Cu</b> 63.546 ± 0.003	<b>30</b> ZINC <b>Zn</b> 65.38 ± 0.02	<b>31</b> GALLIUM <b>Ga</b> 69.723 ± 0.001	<b>32</b> GERMANIUM <b>Ge</b> 72.630 ± 0.008	<b>33</b> ARSENIC <b>As</b> 74.922 ± 0.001	<b>34</b> SELENIUM <b>Se</b> 78.971 ± 0.008	<b>35</b> BROMINE <b>Br</b> 79.904 ± 0.003	<b>36</b> KRYPTON <b>Kr</b> 83.798 ± 0.002
<b>37</b> RUBIDIUM <b>Rb</b> 85.468 ± 0.001	<b>38</b> STRONTIUM <b>Sr</b> 87.62 ± 0.01	<b>39</b> YTTRIUM <b>Y</b> 88.906 ± 0.001	<b>40</b> ZIRCONIUM <b>Zr</b> 91.224 ± 0.002	<b>41</b> NIوبيUM <b>Nb</b> 92.906 ± 0.001	<b>42</b> MOLYBDENUM <b>Mo</b> 95.95 ± 0.01	<b>43</b> TECHNETIUM <b>Tc</b> [97]	<b>44</b> RUTHENIUM <b>Ru</b> 101.07 ± 0.02	<b>45</b> RHODIUM <b>Rh</b> 102.91 ± 0.01	<b>46</b> PALLADIUM <b>Pd</b> 106.42 ± 0.01	<b>47</b> SILVER <b>Ag</b> 107.87 ± 0.01	<b>48</b> CADMIUM <b>Cd</b> 112.41 ± 0.01	<b>49</b> INDIUM <b>In</b> 114.82 ± 0.01	<b>50</b> TIN <b>Sn</b> 118.71 ± 0.01	<b>51</b> ANTIMONY <b>Sb</b> 121.76 ± 0.01	<b>52</b> TELLURIUM <b>Te</b> 127.60 ± 0.03	<b>53</b> IODINE <b>I</b> 126.90 ± 0.01	<b>54</b> XENON <b>Xe</b> 131.29 ± 0.01
<b>55</b> CESIUM <b>Cs</b> 132.91 ± 0.01	<b>56</b> BARIUM <b>Ba</b> 137.33 ± 0.01	<b>57</b> LANTHANUM <b>La</b> 138.91 ± 0.01	<b>72</b> HAFNIUM <b>Hf</b> 178.49 ± 0.01	<b>73</b> TANTALUM <b>Ta</b> 180.95 ± 0.01	<b>74</b> TUNGSTEN <b>W</b> 183.84 ± 0.01	<b>75</b> RHENIUM <b>Re</b> 186.21 ± 0.01	<b>76</b> OSMIUM <b>Os</b> 190.23 ± 0.03	<b>77</b> IRIDIUM <b>Ir</b> 192.22 ± 0.01	<b>78</b> PLATINUM <b>Pt</b> 195.08 ± 0.02	<b>79</b> GOLD <b>Au</b> 196.97 ± 0.01	<b>80</b> MERCURY <b>Hg</b> 200.59 ± 0.01	<b>81</b> THALLIUM <b>Tl</b> 204.38 ± 0.01	<b>82</b> LEAD <b>Pb</b> 207.2 ± 1.1	<b>83</b> BISMUTH <b>Bi</b> 208.98 ± 0.01	<b>84</b> POLONIUM <b>Po</b> [209]	<b>85</b> ASTATINE <b>At</b> [210]	<b>86</b> RADON <b>Rn</b> [222]
<b>87</b> FRANCIUM <b>Fr</b> [223]	<b>88</b> RADIUM <b>Ra</b> [226]	<b>89</b> ACTINIUM <b>Ac</b> [227]	<b>104</b> RUTHERFORDIUM <b>Rf</b> [267]	<b>105</b> DUBNIUM <b>Db</b> [268]	<b>106</b> SEABORGIUM <b>Sg</b> [269]	<b>107</b> BOHRIUM <b>Bh</b> [270]	<b>108</b> HASSIUM <b>Hs</b> [269]	<b>109</b> MEITNERIUM <b>Mt</b> [277]	<b>110</b> DARMSTADIUM <b>Rg</b> [281]	<b>111</b> ROENTGENIUM <b>Mt</b> [282]	<b>112</b> COPERNICIUM <b>Cn</b> [285]	<b>113</b> NIHONIUM <b>Nh</b> [286]	<b>114</b> FLEROVIUM <b>Fl</b> [290]	<b>115</b> MOSCOVIUM <b>Mc</b> [290]	<b>116</b> LIVERMORIUM <b>Lv</b> [293]	<b>117</b> TENNESSINE <b>Ts</b> [294]	<b>118</b> OGANESSON <b>Og</b> [294]

## KEY

The chemical element symbol is in the center of each block, just below the element name. The color used indicates the physical state of the element under ordinary conditions: black for solids, green for liquids, blue for gases and gray for undetermined.

All atomic weight values reported by IUPAC (International Union of Pure and Applied Chemistry) and CIAAW (Commission on Isotopic Abundances and Atomic Weights). Last update 2023

The Atomic Number is shown in red in the upper left hand corner.

\*Lanthanide Series →

<b>58</b> CERIUM <b>Ce</b> 140.12 ± 0.01	<b>59</b> PRASEODYMIUM <b>Pr</b> 140.91 ± 0.01	<b>60</b> NEODYMIUM <b>Nd</b> 144.24 ± 0.01	<b>61</b> PROMETHIUM <b>Pm</b> [145]	<b>62</b> SAMARIUM <b>Sm</b> 150.36 ± 0.02	<b>63</b> EUROPIUM <b>Eu</b> 151.96 ± 0.01	<b>64</b> GADOLINIUM <b>Gd</b> 157.25 ± 0.03	<b>65</b> TERBIUM <b>Tb</b> 158.93 ± 0.01	<b>66</b> DYSPROSIUM <b>Dy</b> 162.50 ± 0.01	<b>67</b> HOLMIUM <b>Ho</b> 164.93 ± 0.01	<b>68</b> ERBIUM <b>Er</b> 167.26 ± 0.01	<b>69</b> THULIUM <b>Tm</b> 168.93 ± 0.01	<b>70</b> YTTERBIUM <b>Yb</b> 173.05 ± 0.02	<b>71</b> LUTETIUM <b>Lu</b> 174.97 ± 0.01
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\*Actinide Series →

<b>90</b> THORIUM <b>Th</b> 232.04 ± 0.01	<b>91</b> PROTACTINIUM <b>Pa</b> 231.04 ± 0.01	<b>92</b> URANIUM <b>U</b> 238.03 ± 0.01	<b>93</b> NEPTUNIUM <b>Np</b> [237]	<b>94</b> PLUTONIUM <b>Pu</b> [244]	<b>95</b> AMERICIUM <b>Am</b> [243]	<b>96</b> CURIUM <b>Cm</b> [247]	<b>97</b> BERKELIUM <b>Bk</b> [247]	<b>98</b> CALIFORNIUM <b>Cf</b> [251]	<b>99</b> EINSTEINIUM <b>Es</b> [252]	<b>100</b> FERMIUM <b>Fm</b> [257]	<b>101</b> MENDELEVIUM <b>Md</b> [258]	<b>102</b> NOBELIUM <b>No</b> [259]	<b>103</b> LAWRENCIUM <b>Lr</b> [262]
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## Notes

- [ ] : Standard atomic weight reported for the element by IUPAC.

