

# Periodic Table

Group  
→

1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18

↓ Period

IA   IIA   IIIB   IVB   VB   VIB   VIIB   VIII B   VIII B   VIII B   IB   IIB   IIIA   IVA   VA   VIA   VIIA   VIII A

1

Hydrogen  
1  
H  
1.0079

Name of element  
Atomic number  
Chemical symbol  
Relative atomic mass †

Helium  
2  
He  
4.0026

2

Lithium  
3  
Li  
6.941(2)

Beryllium  
4  
Be  
9.0122

Boron  
5  
B  
10.811(7)

Carbon  
6  
C  
12.011

Nitrogen  
7  
N  
14.007

Oxygen  
8  
O  
15.999

Fluorine  
9  
F  
18.998

Neon  
10  
Ne  
20.180

3

Sodium  
11  
Na  
22.990

Magnesium  
12  
Mg  
24.305

Aluminum  
13  
Al  
26.982

Silicon  
14  
Si  
28.086

Phosphorus  
15  
P  
30.974

Sulfur  
16  
S  
32.066(6)

Chlorine  
17  
Cl  
35.453

Argon  
18  
Ar  
39.948(1)

4

Potassium  
19  
K  
39.098

Calcium  
20  
Ca  
40.078(4)

Scandium  
21  
Sc  
44.956

Titanium  
22  
Ti  
47.867(1)

Vanadium  
23  
V  
50.942(1)

Chromium  
24  
Cr  
51.996

Manganese  
25  
Mn  
54.938

Iron  
26  
Fe  
55.845(2)

Cobalt  
27  
Co  
58.933

Nickel  
28  
Ni  
58.693

Copper  
29  
Cu  
63.546(3)

Zinc  
30  
Zn  
65.39(2)

Gallium  
31  
Ga  
69.723(1)

Germanium  
32  
Ge  
72.61(2)

Arsenic  
33  
As  
74.922

Selenium  
34  
Se  
78.96(3)

Bromine  
35  
Br  
79.904(1)

Krypton  
36  
Kr  
83.80(1)

5

Rubidium  
37

Strontium  
38

Yttrium  
39

Zirconium  
40

Niobium  
41

Molybdenum  
42

Technetium  
43

Ruthenium  
44

Rhodium  
45

Palladium  
46

Silver  
47  
Ag

Cadmium  
48

Indium  
49

Tin  
50  
Sn

Antimony  
51

Tellurium  
52

Iodine  
53  
I

Xenon  
54

6

<b>Rb</b> 85.4 68	<b>Sr</b> 87.62 (1)	<b>Y</b> 88.90 6	<b>Zr</b> 91.224( 2)	<b>Nb</b> 92.906	<b>Mo</b> 95.94( 1)	<b>Tc</b> [97.90 7]	44 <b>Ru</b> 101.0 7(2)	<b>Rh</b> 102.9 06	<b>Pd</b> 106.42 (1)	107.86 8	<b>Cd</b> 112.4 11(8)	<b>In</b> 114.8 18(3)	118.71 0(7)	<b>Sb</b> 121.76 0(1)	<b>Te</b> 127.60 (3)	126.9 04	<b>Xe</b> 131.2 9(2)
Caesium 55 <b>Cs</b> 132. 905	Barium 56 <b>Ba</b> 137.3 27(7)	Lanthanides 57- 71 *	Hafnium 72 <b>Hf</b> 178.49( 2)	Tantalum 73 <b>Ta</b> 180.94 8	Tungsten 74 <b>W</b> 183.84 (1)	Rhenium 75 <b>Re</b> 186.2 07(1)	Osmium 76 <b>Os</b> 190.2 3(3)	Iridium 77 <b>Ir</b> 192.2 17(3)	Platinum 78 <b>Pt</b> 195.08 4(9)	Gold 79 <b>Au</b> 196.96 7	Mercury 80 <b>Hg</b> 200.5 9(2)	Thallium 81 <b>Tl</b> 204.3 83	Lead 82 <b>Pb</b> 207.2( 1)	Bismuth 83 <b>Bi</b> 208.98 0	Polonium 84 <b>Po</b> [208.9 82]	Astatine 85 <b>At</b> [209.9 87]	Radon 86 <b>Rn</b> [222.0 18]
Francium 87 <b>Fr</b> [223. 020]	Radium 88 <b>Ra</b> [226. 0254]	Actinides 89- 103 **	Rutherfordium 104 <b>Rf</b> [263.11 3]	Dubnium 105 <b>Db</b> [262.11 4]	Seaborgium 106 <b>Sg</b> [266.1 22]	Bohrium 107 <b>Bh</b> [264.1 247]	Hassium 108 <b>Hs</b> [269. 134]	Meitnerium 109 <b>Mt</b> [268. 139]	Darmstadtium 110 <b>Ds</b> [272.1 46]	Roentgenium 111 <b>Rg</b> [272.1 54]	Ununbium 112 <b>Uub</b> [277]	Ununtrium 113 <b>Uut</b> [284]	Ununquadium 114 <b>Uuq</b> [289]	Ununpentium 115 <b>Uup</b> [288]	Ununhexium 116 <b>Uuh</b> [292]	Ununseptium 117 <b>Uus</b> ?	Ununoctium 118 <b>Uuo</b> [294]

7

\* **Lanthanides**

Lanthanum 57 <b>La</b> 138.9 05	Cerium 58 <b>Ce</b> 140.11 6(1)	Praseodymium 59 <b>Pr</b> 140.90 8	Neodymium 60 <b>Nd</b> 144.24 2(3)	Promethium 61 <b>Pm</b> [144.9 13]	Samarium 62 <b>Sm</b> 150.3 6(2)	Europium 63 <b>Eu</b> 151.9 64(1)	Gadolinium 64 <b>Gd</b> 157.25 (3)	Terbium 65 <b>Tb</b> 158.92 5	Dysprosium 66 <b>Dy</b> 162.5 00(1)	Holmium 67 <b>Ho</b> 164.9 30	Erbium 68 <b>Er</b> 167.25 9(3)	Thulium 69 <b>Tm</b> 168.93 4	Ytterbium 70 <b>Yb</b> 173.04 (3)	Lutetium 71 <b>Lu</b> 174.9 67(1)
Actinium 89 <b>Ac</b> [227. 027]	Thorium 90 <b>Th</b> 232.03 8	Protactinium 91 <b>Pa</b> 231.03 6	Uranium 92 <b>U</b> 238.02 9	Neptunium 93 <b>Np</b> [237.0 48]	Plutonium 94 <b>Pu</b> [244. 064]	Americium 95 <b>Am</b> [243. 061]	Curium 96 <b>Cm</b> [247.0 70]	Berkelium 97 <b>Bk</b> [247.0 70]	Californium 98 <b>Cf</b> [251.0 80]	Einsteinium 99 <b>Es</b> [252.0 83]	Fermium 100 <b>Fm</b> [257.0 95]	Mendelevium 101 <b>Md</b> [258.0 98]	Nobelium 102 <b>No</b> [259.1 01]	Lawrencium 103 <b>Lr</b> [262.1 10]

\*\* **Actinides**