

# Periodic Table of the Elements

NEW 1  
 IIA 2  
 IIIB 3  
 IVB 4  
 VB 5  
 VIB 6  
 VIIB 7  
 VIII 8  
 IX 9  
 X 10  
 XI 11  
 XII 12

13 IIA Boron Family  
 14 IIIA Carbon Family  
 15 IVA Nitrogen Family  
 16 VA Oxygen Family  
 17 VIA Halogens  
 18 VIIA Noble Gases

1 H hydrogen 1.00794(7)	2 He helium 4.002602(2)																																										
3 Li lithium 6.941(2)	4 Be beryllium 9.012182(3)	5 B boron 10.811(7)	6 C carbon 12.0107(8)	7 N nitrogen 14.007(4)	8 O oxygen 15.999(7)	9 F fluorine 18.998403163	10 Ne neon 20.1797(6)					11 Na sodium 22.98976928	12 Mg magnesium 24.3050(6)																														
13 Al aluminum 26.9815386(2)	14 Si silicon 28.0855(8)	15 P phosphorus 30.9737612(2)	16 S sulfur 32.066(6)	17 Cl chlorine 35.4527(8)	18 Ar argon 39.948(1)	19 K potassium 39.0983(1)	20 Ca calcium 40.078(4)	<div style="text-align: center;"> <p>Transition Metals</p> </div>				21 Sc scandium 44.955912(2)	22 Ti titanium 47.88(7)	23 V vanadium 50.9415(2)	24 Cr chromium 51.9961(6)	25 Mn manganese 54.938044(1)	26 Fe iron 55.845(2)	27 Co cobalt 58.933195(5)	28 Ni nickel 58.6934(4)	29 Cu copper 63.546(3)	30 Zn zinc 65.38(4)																						
31 Ga gallium 69.723(1)	32 Ge germanium 72.64(1)	33 As arsenic 74.92160(2)	34 Se selenium 78.96(3)	35 Br bromine 79.904(1)	36 Kr krypton 83.80(1)	37 Rb rubidium 85.4678(3)	38 Sr strontium 87.62(1)					39 Y yttrium 88.90584(2)	40 Zr zirconium 91.224(2)	41 Nb niobium 92.90638(2)	42 Mo molybdenum 95.94(2)	43 Tc technetium 98.9062(1)	44 Ru ruthenium 101.07(2)	45 Rh rhodium 102.90550(2)	46 Pd palladium 106.9051(2)	47 Ag silver 107.8682(2)	48 Cd cadmium 112.411(8)	49 In indium 114.818(1)	50 Sn tin 118.710(7)	51 Sb antimony 121.760(1)	52 Te tellurium 127.603(2)	53 I iodine 126.90447(3)	54 Xe xenon 131.29(2)	55 Ba barium 137.327(7)	56 La lanthanum 138.9048(1)	57 Ce cerium 140.12(1)	58 Pr praseodymium 140.90765(2)	59 Nd neodymium 144.24(3)	60 Pm promethium [144.9127]	61 Sm samarium 150.36(3)	62 Eu europium 151.964(1)	63 Gd gadolinium 157.25(3)	64 Tb terbium 158.92534(2)	65 Dy dysprosium 162.50(3)	66 Ho holmium 164.93032(2)	67 Er erbium 167.26(3)	68 Tm thulium 168.93421(2)	69 Yb ytterbium 173.054(3)	70 Lu lutetium 174.967(1)
71 Tl thallium 204.3833(2)	72 Pb lead 207.2(1)	73 Bi bismuth 208.98038(2)	74 Po polonium [209]	75 At astatine [209]	76 Rn radon [222.0176]	77 Fr francium [223.0197]	78 Ra radium [226.0754]					79 Ac actinium [227.0287]	80 Th thorium 232.0381(1)	81 Pa protactinium 231.03688(2)	82 U uranium 238.02891(1)	83 Np neptunium [237.0482]	84 Pu plutonium [244.0642]	85 Am americium [243.0641]	86 Cm curium [247.0703]	87 Bk berkelium [247.0703]	88 Cf californium [251.0796]	89 Es einsteinium [252.0830]	90 Fm fermium [257.0951]	91 Md mendelevium [258.0984]	92 No nobelium [259.1011]	93 Lr lawrencium [262.1101]																	

**Key:**

- Alkali Metals
- Alkali Earth Metals
- Transition Metals
- Lanthanide Series
- Actinide Series
- Other Metals
- Nonmetals
- Noble Gases
- Solid
- Liquid
- Gas
- Synthetic

Alkali Metals  
 Alkali Earth Metals

Atomic mass in brackets [ ] are those of the most stable or common isotope.

57 La lanthanum 138.90547(2)	58 Ce cerium 140.116(1)	59 Pr praseodymium 140.90765(2)	60 Nd neodymium 144.24(3)	61 Pm promethium [144.9127]	62 Sm samarium 150.36(3)	63 Eu europium 151.964(1)	64 Gd gadolinium 157.25(3)	65 Tb terbium 158.92534(2)	66 Dy dysprosium 162.50(3)	67 Ho holmium 164.93032(2)	68 Er erbium 167.26(3)	69 Tm thulium 168.93421(2)	70 Yb ytterbium 173.054(3)	71 Lu lutetium 174.967(1)
89 Ac actinium [227.0287]	90 Th thorium 232.0381(1)	91 Pa protactinium 231.03688(2)	92 U uranium 238.02891(1)	93 Np neptunium [237.0482]	94 Pu plutonium [244.0642]	95 Am americium [243.0641]	96 Cm curium [247.0703]	97 Bk berkelium [247.0703]	98 Cf californium [251.0796]	99 Es einsteinium [252.0830]	100 Fm fermium [257.0951]	101 Md mendelevium [258.0984]	102 No nobelium [259.1011]	103 Lr lawrencium [262.1101]

Lanthanide Series  
 Actinide Series