

The Periodic Table of the Elements

group 1											18																					
period 1	1 H Hydrogen 1.00794 1.00811											2 He Helium 4.002602 4.002602																				
2	3 Li Lithium 6.941 6.941	4 Be Beryllium 9.01224 9.01224											5 B Boron 10.811 10.811	6 C Carbon 12.011 12.011	7 N Nitrogen 14.007 14.007	8 O Oxygen 15.999 15.999	9 F Fluorine 18.998 18.998	10 Ne Neon 20.180 20.180														
3	11 Na Sodium 22.990 22.990	12 Mg Magnesium 24.305 24.305											13 Al Aluminum 26.982 26.982	14 Si Silicon 28.086 28.086	15 P Phosphorus 30.974 30.974	16 S Sulfur 32.065 32.065	17 Cl Chlorine 35.453 35.453	18 Ar Argon 39.948 39.948														
4	19 K Potassium 39.098 39.098	20 Ca Calcium 40.078 40.078	21 Sc Scandium 44.956 44.956	22 Ti Titanium 47.883 47.883	23 V Vanadium 50.942 50.942	24 Cr Chromium 51.996 51.996	25 Mn Manganese 54.938 54.938	26 Fe Iron 55.845 55.845	27 Co Cobalt 58.933 58.933	28 Ni Nickel 58.693 58.693	29 Cu Copper 63.546 63.546	30 Zn Zinc 65.38 65.38	31 Ga Gallium 69.723 69.723	32 Ge Germanium 72.631 72.631	33 As Arsenic 74.922 74.922	34 Se Selenium 78.96 78.96	35 Br Bromine 79.904 79.904	36 Kr Krypton 83.798 83.798														
5	37 Rb Rubidium 85.468 85.468	38 Sr Strontium 87.62 87.62	39 Y Yttrium 88.906 88.906	40 Zr Zirconium 91.224 91.224	41 Nb Niobium 92.906 92.906	42 Mo Molybdenum 95.94 95.94	43 Tc Technetium 98 98	44 Ru Ruthenium 101.07 101.07	45 Rh Rhodium 101.07 101.07	46 Pd Palladium 106.36 106.36	47 Ag Silver 107.868 107.868	48 Cd Cadmium 112.411 112.411	49 In Indium 114.818 114.818	50 Sn Tin 118.710 118.710	51 Sb Antimony 121.757 121.757	52 Te Tellurium 127.6 127.6	53 I Iodine 126.905 126.905	54 Xe Xenon 131.29 131.29														
6	55 Cs Cesium 132.905 132.905	56 Ba Barium 137.327 137.327	57 La Lanthanum 138.905 138.905	58 Ce Cerium 140.12 140.12	59 Pr Praseodymium 140.908 140.908	60 Nd Neodymium 144.242 144.242	61 Pm Promethium 145 145	62 Sm Samarium 150.36 150.36	63 Eu Europium 151.964 151.964	64 Gd Gadolinium 157.25 157.25	65 Tb Terbium 158.925 158.925	66 Dy Dysprosium 162.502 162.502	67 Ho Holmium 164.930 164.930	68 Er Erbium 167.259 167.259	69 Tm Thulium 168.934 168.934	70 Yb Ytterbium 173.054 173.054	71 Lu Lutetium 174.967 174.967	72 Hf Hafnium 178.49 178.49	73 Ta Tantalum 180.948 180.948	74 W Tungsten 183.84 183.84	75 Re Rhenium 186.207 186.207	76 Os Osmium 190.23 190.23	77 Ir Iridium 192.222 192.222	78 Pt Platinum 195.084 195.084	79 Au Gold 196.967 196.967	80 Hg Mercury 200.59 200.59	81 Tl Thallium 204.383 204.383	82 Pb Lead 207.2 207.2	83 Bi Bismuth 208.980 208.980	84 Po Polonium 209 209	85 At Astatine 210 210	86 Rn Radon 222 222
7	87 Fr Francium 223 223	88 Ra Radium 226 226	89 Lr Lawrencium 260 260	103 Rf Rutherfordium 261 261	104 Db Dubnium 262 262	105 Sg Seaborgium 263 263	106 Bh Bohrium 264 264	107 Hs Hassium 265 265	108 Mt Meitnerium 266 266	109 Ds Darmstadtium 267 267	110 Rg Roentgenium 268 268	111 Cn Copernicium 269 269	112 Cn Copernicium 270 270	113 Uut Ununtrium 271 271	114 Fl Flerovium 272 272	115 Uup Ununpentium 273 273	116 Lv Livermorium 274 274	117 Uus Ununseptium 275 275	118 Uuo Ununoctium 276 276													

atomic mass or most stable mass number: 55.845

atomic number: 26

ionization energy in kJ/mol: 762.5

electronegativity: 1.83

chemical symbol: Fe

name: Iron

electron configuration: [Ar] 3d⁶ 4s²

oxidation states: most common are bold

- alkali metals
- alkaline metals
- other metals
- transition metals
- lanthanoids
- actinoids
- metalloids
- nonmetals
- halogens
- noble gases
- unknown elements
- radioactive elements have masses in parentheses



notes

- *not yet elements 113, 115, 117 and 118
- known official superheavy by the IUPAC
- *1 Mol = 36.56 K
- *elements are applied to have associated standard ent.

138.905 138.905	140.12 140.12	140.908 140.908	144.242 144.242	145 145	150.36 150.36	151.964 151.964	157.25 157.25	158.925 158.925	162.502 162.502	164.930 164.930	167.259 167.259	168.934 168.934	173.054 173.054	174.967 174.967	178.49 178.49	180.948 180.948	183.84 183.84	186.207 186.207	190.23 190.23	192.222 192.222	195.084 195.084	196.967 196.967	200.59 200.59	204.383 204.383	207.2 207.2	208.980 208.980	209 209	210 210	222 222		
La Lanthanum (s) (f)	Ce Cerium (s) (f)	Pr Praseodymium (s) (f)	Nd Neodymium (s) (f)	Pm Promethium (s) (f)	Sm Samarium (s) (f)	Eu Europium (s) (f)	Gd Gadolinium (s) (f)	Tb Terbium (s) (f)	Dy Dysprosium (s) (f)	Ho Holmium (s) (f)	Er Erbium (s) (f)	Tm Thulium (s) (f)	Yb Ytterbium (s) (f)	Lu Lutetium (s) (f)	Hf Hafnium (s) (d)	Ta Tantalum (s) (d)	W Tungsten (s) (d)	Re Rhenium (s) (d)	Os Osmium (s) (d)	Ir Iridium (s) (d)	Pt Platinum (s) (d)	Au Gold (s) (d)	Hg Mercury (s) (d)	Tl Thallium (s) (p)	Pb Lead (s) (p)	Bi Bismuth (s) (p)	Po Polonium (s) (p)	At Astatine (s) (p)	Rn Radon (s) (p)		
223 223	226 226	227 227	228 228	229 229	232 232	237 237	244 244	247 247	251 251	252 252	257 257	261 261	262 262	263 263	264 264	265 265	266 266	267 267	268 268	269 269	270 270	271 271	272 272	273 273	274 274	275 275	276 276	277 277	278 278	279 279	280 280
Ac Actinium (s) (f)	Th Thorium (s) (f)	Pa Protactinium (s) (f)	U Uranium (s) (f)	Np Neptunium (s) (f)	Pu Plutonium (s) (f)	Am Americium (s) (f)	Cm Curium (s) (f)	Bk Berkelium (s) (f)	Cf Californium (s) (f)	Es Einsteinium (s) (f)	Fm Fermium (s) (f)	Md Mendelevium (s) (f)	No Nobelium (s) (f)	Lr Lawrencium (s) (f)	Rf Rutherfordium (s) (f)	Db Dubnium (s) (f)	Sg Seaborgium (s) (f)	Bh Bohrium (s) (f)	Hs Hassium (s) (f)	Mt Meitnerium (s) (f)	Ds Darmstadtium (s) (f)	Rg Roentgenium (s) (f)	Cn Copernicium (s) (f)	Uut Ununtrium (s) (f)	Fl Flerovium (s) (f)	Uup Ununpentium (s) (f)	Lv Livermorium (s) (f)	Uus Ununseptium (s) (f)	Uuo Ununoctium (s) (f)		