

List of elements (2011)

atomic number	name	symbol	physical appearance*	metal or nonmetal	date of discovery	naturally occurring?	arrangement of atoms
1	hydrogen	H	colorless gas	nonmetal	1766	yes	diatomic
2	helium	He	colorless gas	nonmetal	1895	yes	individual
3	lithium	Li	gray metal	metal	1817	yes	individual
4	beryllium	Be	gray metal	metal	1797	yes	individual
5	boron	B	gray solid	metalloid	1808	yes	network
6	carbon	C	black powder	nonmetal	unknown	yes	network
7	nitrogen	N	colorless gas	nonmetal	1772	yes	diatomic
8	oxygen	O	colorless gas	nonmetal	1774	yes	diatomic
9	fluorine	F	pale yellow gas	nonmetal	1886	yes	diatomic
10	neon	Ne	colorless gas	nonmetal	1898	yes	individual
11	sodium	Na	gray metal	metal	1807	yes	individual
12	magnesium	Mg	light gray metal	metal	1755	yes	individual
13	aluminum	Al	light gray metal	metal	1825	yes	individual
14	silicon	Si	dark gray crystals	metalloid	1824	yes	individual
15	phosphorus	P	white or red powder	nonmetal	1669	yes	P ₄ or network
16	sulfur	S	yellow crystals	nonmetal	unknown	yes	S ₈
17	chlorine	Cl	yellow-green gas	nonmetal	1774	yes	diatomic
18	argon	Ar	colorless gas	nonmetal	1894	yes	individual
19	potassium	K	light gray metal	metal	1807	yes	individual
20	calcium	Ca	light gray metal	metal	1808	yes	individual
21	scandium	Sc	light gray metal	metal	1879	yes	individual
22	titanium	Ti	gray metal	metal	1791	yes	individual
23	vanadium	V	gray metal	metal	1801	yes	individual
24	chromium	Cr	light gray metal	metal	1797	yes	individual
25	manganese	Mn	light gray metal	metal	1774	yes	individual
26	iron	Fe	gray metal	metal	unknown	yes	individual
27	cobalt	Co	gray metal	metal	1735	yes	individual
28	nickel	Ni	gray metal	metal	1751	yes	individual
29	copper	Cu	yellow-orange metal	metal	unknown	yes	individual
30	zinc	Zn	light gray metal	metal	unknown	yes	individual
31	gallium	Ga	light gray metal	metal	1875	yes	individual

32	germanium	Ge	gray crystals	metalloid	1886	yes	network
33	arsenic	As	gray crystals	metalloid	1250	yes	network
34	selenium	Se	gray crystals	nonmetal	1817	yes	network
35	bromine	Br	red brown liquid	nonmetal	1826	yes	diatomic
36	krypton	Kr	colorless gas	nonmetal	1898	yes	individual
37	rubidium	Rb	light gray metal	metal	1861	yes	individual
38	strontium	Sr	yellow white metal	metal	1790	yes	individual
39	yttrium	Y	steel gray metal	metal	1794	yes	individual
40	zirconium	Zr	gray white metal	metal	1789	yes	individual
41	niobium	Nb	deep gray metal	metal	1801	yes	individual
42	molybdenum	Mo	dark gray metal	metal	1778	yes	individual
43	technetium	Tc	gray metal	metal	1937	no	individual
44	ruthenium	Ru	gray white metal	metal	1844	yes	individual
45	rhodium	Rh	gray metal	metal	1803	yes	individual
46	palladium	Pd	gray white metal	metal	1803	yes	individual
47	silver	Ag	gray white metal	metal	unknown	yes	individual
48	cadmium	Cd	light gray metal	metal	1817	yes	individual
49	indium	In	light gray metal	metal	1863	yes	individual
50	tin	Sn	light gray metal	metal	unknown	yes	individual
51	antimony	Sb	light gray crystals	metalloid	1540	yes	individual
52	tellurium	Te	gray crystals	metalloid	1782	yes	network
53	iodine	I	dark gray crystals	nonmetal	1811	yes	diatomic
54	xenon	Xe	colorless gas	nonmetal	1898	yes	individual
55	cesium	Cs	silvery gold metal	metal	1860	yes	individual
56	barium	Ba	light gray metal	metal	1808	yes	individual
57	lanthanum	La	dark gray metal	metal	1839	yes	individual
58	cerium	Ce	gray metal	metal	1803	yes	individual
59	praseodymium	Pr	gray metal	metal	1895	yes	individual
60	neodymium	Nd	gray metal	metal	1895	yes	individual
61	promethium	Pm	gray metal	metal	1945	no	individual
62	samarium	Sm	light gray metal	metal	1879	yes	individual
63	europium	Eu	light gray metal	metal	1901	yes	individual
64	gadolinium	Gd	light gray metal	metal	1880	yes	individual
65	terbium	Tb	light gray metal	metal	1843	yes	individual
66	dysprosium	Dy	light gray metal	metal	1886	yes	individual

67	holmium	Ho	light gray metal	metal	1878	yes	individual
68	erbium	Er	light gray metal	metal	1842	yes	individual
69	thulium	Tm	gray metal	metal	1879	yes	individual
70	ytterbium	Yb	light gray metal	metal	1878	yes	individual
71	lutetium	Lu	light gray metal	metal	1907	yes	individual
72	hafnium	Hf	gray metal	metal	1923	yes	individual
73	tantalum	Ta	blue gray metal	metal	1802	yes	individual
74	tungsten	W	gray metal	metal	1783	yes	individual
75	rhenium	Re	gray metal	metal	1925	yes	individual
76	osmium	Os	bluish gray metal	metal	1803	yes	individual
77	iridium	Ir	light gray metal	metal	1803	yes	individual
78	platinum	Pt	light gray metal	metal	1557	yes	individual
79	gold	Au	bright yellow metal	metal	unknown	yes	individual
80	mercury	Hg	liquid gray metal	metal	unknown	yes	individual
81	thallium	Tl	gray metal	metal	1861	yes	individual
82	lead	Pb	bluish gray metal	metal	unknown	yes	individual
83	bismuth	Bi	pinkish metal	metal	1540	yes	individual
84	polonium	Po	gray metal	metal	1898	yes	individual
85	astatine	At	unknown		1940	yes	
86	radon	Rn	colorless gas	nonmetal	1900	yes	individual
87	francium	Fr	unknown		1939	yes	
88	radium	Ra	light gray metal	metal	1898	yes	individual
89	actinium	Ac	gray metal	metal	1899	yes	individual
90	thorium	Th	light gray metal	metal	1829	yes	individual
91	protactinium	Pa	light gray metal	metal	1917	yes	individual
92	uranium	U	gray metal	metal	1789	yes	individual
93	neptunium	Np	light gray metal	metal	1940	no	individual
94	plutonium	Pu	light gray metal	metal	1940	no	individual
95	americium	Am	light gray metal	metal	1944	no	individual
96	curium	Cm	light gray metal	metal	1944	no	individual
97	berkelium	Bk	light gray metal	metal	1949	no	individual
98	californium	Cf	light gray metal	metal	1950	no	individual
99	einsteinium	Es	light gray metal	metal	1952	no	individual
100	fermium	Fm	unknown		1952	no	
101	mendelevium	Md	unknown		1955	no	

102	nobelium	No	unknown		1958	no	
103	lawrencium	Lr	unknown		1961	no	
104	rutherfordium	Rf	unknown		1964	no	
105	dubnium	Db	unknown		1967	no	
106	seaborgium	Sg	unknown		1974	no	
107	bohrium	Bh	unknown		1976	no	
108	hassium	Hs	unknown		1984	no	
109	meitnerium	Mt	unknown		1982	no	
110	darmstradtium	Ds	unknown		1994	no	
111	roentgenium	Rg	unknown		1994	no	
112	copernicium	Cn	unknown		1996	no	
113	<i>ununtrinium</i>	<i>Uut</i>	unknown		2003	no	
114	<i>ununquadium</i>	<i>Uuq</i>	unknown		1999	no	
115	<i>ununpentium</i>	<i>Uup</i>	unknown		2003	no	
116	<i>ununhexium</i>	<i>Uuh</i>	unknown		2000	no	
117	<i>ununseptium</i>	<i>Uus</i>	unknown		2009	no	
118	<i>ununoctium</i>	<i>Uuo</i>	unknown		2002	no	