

ZACK'S ROCKS & MINERALS

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Periodic Table of the Elements

Alkali metals		Alkaline earth metals					Lanthanides					Actinides					Transition metals	
Poor metals		Metalloids					Nonmetals					Halogens					Noble gases	
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Group 10	Group 11	Group 12	Group 13	Group 14	Group 15	Group 16	Group 17	Group 18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	* La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	** Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
* Lanthanides				57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
** Actinides				89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr

Atomic Number	Symbol	Name	Average Atomic Mass
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	14.00674(7)
8	O	Oxygen	15.9994(3)
9	F	Fluorine	18.9984032(5)
10	Ne	Neon	20.1797(6)
11	Na	Sodium	22.98976928(2)
12	Mg	Magnesium	24.3050(6)

Atomic Number	Symbol	Name	Average Atomic Mass
13	Al	Aluminium	26.9815386(8)
14	Si	Silicon	28.0855(3)
15	P	Phosphorus	30.973762(2)
16	S	Sulfur	32.066(6)
17	Cl	Chlorine	35.4527(9)
18	Ar	Argon	39.948(1)
19	K	Potassium	39.0983(1)
20	Ca	Calcium	40.078(4)
21	Sc	Scandium	44.955912(6)
22	Ti	Titanium	47.867(1)
23	V	Vanadium	50.9415(1)
24	Cr	Chromium	51.9961(6)
25	Mn	Manganese	54.938045(5)
26	Fe	Iron	55.845(2)
27	Co	Cobalt	58.933195(5)
28	Ni	Nickel	58.6934(2)
29	Cu	Copper	63.546(3)
30	Zn	Zinc	65.39(2)
31	Ga	Gallium	69.723(1)
32	Ge	Germanium	72.61(2)
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	88.90585(2)
40	Zr	Zirconium	91.224(2)
41	Nb	Niobium	92.90638(2)
42	Mo	Molybdenum	95.94(1)
43	Tc	Technetium	[97.9072]
44	Ru	Ruthenium	101.07(2)
45	Rh	Rhodium	102.90550(2)
46	Pd	Palladium	106.42(1)
47	Ag	Silver	107.8682(2)
48	Cd	Cadmium	112.411(8)
49	In	Indium	114.818(3)
50	Sn	Tin	118.710(7)

Atomic Number	Symbol	Name	Average Atomic Mass
51	Sb	Antimony	121.760(1)
52	Te	Tellurium	127.60(3)
53	I	Iodine	126.90447(3)
54	Xe	Xenon	131.29(2)
55	Cs	Caesium	132.9054519(2)
56	Ba	Barium	137.327(7)
57	La	Lanthanum	138.90547(7)
58	Ce	Cerium	140.116(1)
59	Pr	Praseodymium	140.90765(2)
60	Nd	Neodymium	144.242(3)
61	Pm	Promethium	[144.9127]
62	Sm	Samarium	150.36(2)
63	Eu	Europium	151.964(1)
64	Gd	Gadolinium	157.25(3)
65	Tb	Terbium	158.92535(2)
66	Dy	Dysprosium	162.500(1)
67	Ho	Holmium	164.93032(2)
68	Er	Erbium	167.259(3)
69	Tm	Thulium	168.93421(2)
70	Yb	Ytterbium	173.04(3)
71	Lu	Lutetium	174.967(1)
72	Hf	Hafnium	178.49(2)
73	Ta	Tantalum	180.94788(2)
74	W	Tungsten	183.84(1)
75	Re	Rhenium	186.207(1)
76	Os	Osmium	190.23(3)
77	Ir	Iridium	192.217(3)
78	Pt	Platinum	195.084(9)
79	Au	Gold	196.966569(4)
80	Hg	Mercury	200.59(2)
81	Tl	Thallium	204.3833(2)
82	Pb	Lead	207.2(1)
83	Bi	Bismuth	208.98040(1)
84	Po	Polonium	[208.9824]
85	At	Astatine	[209.9871]
86	Rn	Radon	[222.0176]
87	Fr	Francium	[223.0197]
88	Ra	Radium	[226.0254]

Atomic Number	Symbol	Name	Average Atomic Mass
89	Ac	Actinium	[227.0277]
90	Th	Thorium	232.03806(2)
91	Pa	Protactinium	231.03588(2)
92	U	Uranium	238.02891(3)
93	Np	Neptunium	[237.0482]
94	Pu	Plutonium	[244.0642]
95	Am	Americium	[243.0614]
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	[262.110]
104	Rf	Rutherfordium	[263.1125]
105	Db	Dubnium	[262.1144]
106	Sg	Seaborgium	[266.1219]
107	Bh	Bohrium	[264.1247]
108	Hs	Hassium	[269.1341]
109	Mt	Meitnerium	[268.1388]
110	Ds	Darmstadtium	[272.1463]
111	Rg	Roentgenium	[272.1535]
112	Uub	Ununbium	[277]
113	Uut	Ununtrium	[284]
114	Uuq	Ununquadium	[289]
115	Uup	Ununpentium	[288]
116	Uuh	Ununhexium	[292]
117	Uus	Ununseptium	[292]‡
118	Uuo	Ununoctium	[294]

† A value in brackets, such as [259.1011], is the atomic mass of the most stable isotope unless it is an integer, in which case it is the mass number of the most stable isotope. In all other cases, the value is the relative atomic mass of common terrestrial composition, according to Atomic Weights of the Elements 2001, and includes its uncertainty in parenthesis. For example, the value of 1.00794(7) for hydrogen means that a normal terrestrial isotopic composition of hydrogen has a relative atomic mass of 1.00794 atomic mass units (u) with an uncertainty of 0.00007u, reflecting primarily local variability around the earth.

‡ This atomic mass is only an estimate, as this element has not yet been discovered.