

atomic number	atomic weight	neutrons	Sym.	Element	Change / Neutron
1	1	0	H	Hydrogen	0.0000000000
2	4	2	He	Helium	-0.0143490645
3	7	4	Li	Lithium	-0.0284438064
4	9	5	Be	Beryllium	-0.0116484580
5	10	5	Bo	Boron	0.1455499355
6	12	6	C	Carbon	-0.0140500645
7	14	7	N	Nitrogen	-0.0147314931
8	16	8	O	Oxygen	-0.0157713145
9	19	10	F	Fluorine	-0.0150272450
10	20	10	Ne	Neon	0.0023199355
11	23	12	Na	Sodium	-0.0158505385
12	24	12	Mg	Magnesium	0.0096832689
13	27	14	Al	Aluminum	-0.0164098193
14	28	14	Si	Silicon	-0.0096500645
15	31	16	P	Phosphorus	-0.0168008751
16	32	16	S	Sulphur	-0.0119625645
17	35	18	Cl	Chlorine	0.0095624373
18	40	22	Ar	Argon	-0.0236818768
19	39	20	K	Potassium	-0.0103438129
20	40	20	Ca	Calcium	-0.0117500645
21	45	24	Sc	Scandium	-0.0165091021
22	48	26	Ti	Titanium	-0.0195615980
23	51	28	V	Vanadium	-0.0163420230
24	52	28	Cr	Chromium	-0.0146714884
25	55	30	Mn	Manganese	-0.0164111258
26	56	30	Fe	Iron	-0.0197733935
27	59	32	Co	Cobalt	-0.0165150907
28	59	31	Ni	Nickel	-0.0247831259
29	64	35	Cu	Copper	-0.0272800590
30	65	35	Zn	Zinc	-0.0036750599
31	70	39	Ga	Gallium	-0.0211474938
32	73	41	Ge	Germanium	-0.0229567647

33	75	42	As	Arsenic	-0.0158400576
34	79	45	Se	Selenium	-0.0143817233
35	80	45	Br	Bromine	-0.0159778351
36	84	48	K	Krypton	-0.0179021398
37	85	48	Rb	Rubidium	-0.0041109946
38	88	50	Sr	Strontium	-0.0213720567
39	89	50	Y	Yttrium	-0.0158117574
40	91	51	Zr	zirconium	-0.0095701556
41	93	52	Nb	Niobium	-0.0157953461
42	96	54	Mo	Molybdenum	-0.0148370944
43	98	55	Tc	Technetium	-0.8596431596
44	101	57	Ru	Ruthenium	-0.0126373378
45	103	58	Rh	Rhodium	-0.0155256607
46	107	61	Pd	Palladium	-0.0232340729
47	108	61	Ag	Silver	-0.0160148112
48	112	64	Cd	Cadmium	-0.0072250564
49	115	66	In	Indium	-0.0163921016
50	119	69	Sn	Tin	-0.0176982440
51	122	71	Sb	Antimony	-0.0168261117
52	128	76	Te	Tellurium	-0.0184421596
53	127	74	I	Iodine	-0.0147203932
54	131	77	Xe	xenon	-0.0095075224
55	133	78	Cs	Cesium	-0.0145542216
56	137	81	Ba	Barium	-0.0091978940
57	139	82	La	Lanthanum	-0.0144168229
58	140	82	Ce	Cerium	-0.0119451770
59	141	82	Pr	Praseodymium	-0.0245434701
60	144	84	Nd	Neodymium	-0.0105571981
61	145	84	Pm	Promethium	0.0000000000
62	150	88	Sm	Samarium	-0.8137548361
63	152	89	Eu	Europium	-0.0137685944
64	157	93	Gd	Gadolinium	-0.0105218286
65	159	94	Tb	Terbium	-0.0140302141
66	163	97	Dy	Dyprosium	-0.0183039202
67	165	98	Ho	Holmium	-0.0138858196
68	167	99	Er	Erbium	-0.0105836402
69	169	100	Tm	Thulium	-0.0138822045

70	173	103	Yb	Ytterbium	-0.0127546658
71	175	104	Lu	Lutetium	-0.0134844293
72	178	106	Hf	Hafnium	-0.0085175070
73	181	108	Ta	Tantalum	-0.0135965818
74	184	110	W	Tungsten	-0.0145436903
75	186	111	Re	Rhenium	-0.0112473513
76	190	114	Os	osmium	-0.0110241765
77	192	115	Ir	Iridium	-0.0111774451
78	195	117	Pt	Platinum	-0.0123750537
79	197	118	Au	Gold	-0.0133472996
80	201	121	Hg	Mercury	-0.0163870370
81	204	123	Tl	Thallium	-0.0098618421
82	207	125	Pb	Lead	-0.0113582534
83	209	126	Bi	Bismuth	-0.0131353313
table compiled by David Michalets					
as a personal reference for analysis.					
This file is a reference for					
his self-published book,					
Redefining Gravity.					
Data are from Wikipedia.					
The book has a reference page identifying					
the url for each page being referenced.					
Note:					
The file contains all elements identified by Wikipedia,					
at the time of the book preparation.					
That date is on the bottom of each page.					
Technetium has a measured mass value.					
All other radioactive elements have no actual					
measured value so all of them here.					
have a difference of zero					
Accuracy cannot be guaranteed with keyboard entries.					