

		MAIN-GROUP ELEMENTS											MAIN-GROUP ELEMENTS						
		IA (1)																VIIIA (18)	
		1																2	
		H																He	
		1.008																4.003	
		Atomic number																Atomic mass	
		Symbol																Symbol	
		Atomic mass																Atomic mass	
		Metals (main group)																Metals (transition)	
		Metals (transition)																Metals (inner transition)	
		Metals (inner transition)																Metalloids	
		Metalloids																Nonmetals	
		Nonmetals																	
		TRANSITION ELEMENTS																	
				IIIB (3)	IVB (4)	VB (5)	VIB (6)	VII B (7)	VIII B (8) (9) (10)			IB (11)	IIB (12)						
Period		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1		11	12									13	14	15	16	17	18		
		Na	Mg									Al	Si	P	S	Cl	Ar		
		22.99	24.31									26.98	28.09	30.97	32.07	35.45	39.95		
2		19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
		K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
		39.10	40.08	44.96	47.88	50.94	52.00	54.94	55.85	58.93	58.69	63.55	65.39	69.72	72.61	74.92	78.96	79.90	83.80
3		37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
		Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
		85.47	87.62	88.91	91.22	92.91	95.94	(98)	101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.8	127.6	126.9	131.3
4		55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
		Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
		132.9	137.3	138.9	178.5	180.9	183.9	186.2	190.2	192.2	195.1	197.0	200.6	204.4	207.2	209.0	(209)	(210)	(222)
5		87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
		Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub		Uug		Uuh		Uuo
		(223)	(226)	(227)	(261)	(262)	(266)	(262)	(265)	(266)	(269)	(272)	(277)		(285)		(289)		

INNER TRANSITION ELEMENTS

6	Lanthanides	58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61 Pm (145)	62 Sm 150.4	63 Eu 152.0	64 Gd 157.3	65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
7	Actinides	90 Th 232.0	91 Pa (231)	92 U 238.0	93 Np (237)	94 Pu (242)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)

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