

PERIODIC TABLE OF THE ELEMENTS

GROUP	PERIODIC TABLE OF THE ELEMENTS																		18																	
1	IA																		VIIA																	
1	1	1.0079 [He] 1s ¹ H HYDROGEN	2	2	IIA																															
2	3	6.941(2) [He] 2s ¹ Li LITHIUM	4	9.0122 [He] 2s ² Be BERYLLIUM																																
3	11	22.990 [Ne] 3s ¹	12	24.305 [Ne] 3s ²																																
4	19	39.098 [Ar] 4s ¹	20	40.078 [Ar] 4s ²	21	44.956 [Ar] 3d ¹ 4s ²	22	47.867 [Ar] 3d ² 4s ²	23	50.942 [Ar] 3d ³ 4s ²	24	51.996 [Ar] 3d ⁴ 4s ¹	25	54.938 [Ar] 3d ⁵ 4s ²	26	55.845 [Ar] 3d ⁶ 4s ²	27	58.933 [Ar] 3d ⁷ 4s ²	28	58.693 [Ar] 3d ⁸ 4s ²	29	63.546 [Ar] 3d ⁹ 4s ¹	30	65.409 [Ar] 3d ¹⁰ 4s ²	31	69.723 [Ar] 3d ¹⁰ 4s ² 4p ¹	32	72.64(1) [Ar] 3d ¹⁰ 4s ² 4p ²	33	74.922 [Ar] 3d ¹⁰ 4s ² 4p ³	34	78.96(3) [Ar] 3d ¹⁰ 4s ² 4p ⁴	35	79.904 [Ar] 3d ¹⁰ 4s ² 4p ⁵	36	83.798 [Ar] 3d ¹⁰ 4s ² 4p ⁶
5	Rb	Sr	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr																		
6	55	132.905 [Xe] 6s ¹	56	137.327 [Xe] 6s ²	57-71	72	178.949(2) [Xe] 4f ¹⁴ 5d ⁶ 6s ²	73	180.947 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	74	183.84(1) [Xe] 4f ¹⁴ 5d ⁶ 6s ²	75	186.207 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	76	190.23(3) [Xe] 4f ¹⁴ 5d ⁶ 6s ²	77	192.217 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	78	195.084 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	79	196.967 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	80	200.59(2) [Xe] 4f ¹⁴ 5d ⁶ 6s ²	81	204.383 [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ¹	82	207.2(1) [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ²	83	208.980 [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ³	84	(209) [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ⁴	85	(210) [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ⁵	86	(222) [Xe] 4f ¹⁴ 5d ⁶ 6s ² 6p ⁶	
7	87	(223) [Rn] 7s ¹	88	(226) [Rn] 7s ²	89-103	104	(261)	105	(262)	106	(266)	107	(264)	108	(277)	109	(268)	110	(281)	111	(272)	112	(285)	113	(284)	114	(289)	115	(288)	116	(292)	117	(294)	118	(294)	
	Fr	Ra	Lanthanides	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Uuq	Uup	Uuh	Uus*	Uuo																		
ELECTRONEGATIVITY																																				
LANTHANIDES																																				
ACTINIDES																																				
ORBITAL FILLING																																				

57	138.905 [Xe] 5d ¹ 6s ²	58	140.116 [Xe] 4f ¹ 5d ¹ 6s ²	59	140.908 [Xe] 4f ² 6s ²	60	144.242 [Xe] 4f ³ 6s ²	61	(145) [Xe] 4f ⁵ 6s ²	62	150.36(2) [Xe] 4f ⁶ 6s ²	63	151.964 [Xe] 4f ⁷ 6s ²	64	157.25(3) [Xe] 4f ⁷ 5d ¹ 6s ²	65	158.925 [Xe] 4f ⁹ 6s ²	66	162.500 [Xe] 4f ¹⁰ 6s ²	67	164.930 [Xe] 4f ¹¹ 6s ²	68	167.259 [Xe] 4f ¹² 6s ²	69	168.934 [Xe] 4f ¹³ 6s ²	70	173.04(3) [Xe] 4f ¹⁴ 6s ²	71	174.967 [Xe] 4f ¹⁵ 5d ¹ 6s ²
La	Cerium	Ce	Praseodymium	Pr	Neodymium	Nd	Promethium	Pm	Samarium	Eu	Europium	Gd	Terbium	Dysprosium	Holmium	Er	Thulium	Ytterbium	Lutetium										

89	(227) [Rn] 6d ¹ 7s ²	90	232.038 [Rn] 6d ² 7s ²	91	231.036 [Rn] 5f ² 6d ¹ 7s ²	92	238.029 [Rn] 5f ³ 6d ¹ 7s ²	93	(237) [Rn] 5f ⁴ 6d ¹ 7s ²	94	(244) [Rn] 5f ⁵ 7s ²	95	(243) [Rn] 5f ⁶ 7s ²	96	(247) [Rn] 5f ⁷ 6d ¹ 7s ²	97	(247) [Rn] 5f ⁸ 7s ²	98	(251) [Rn] 5f ⁹ 7s ²	99	(252) [Rn] 5f ¹⁰ 7s ²	100	(257) [Rn] 5f ¹¹ 7s ²	101	(258) [Rn] 5f ¹² 7s ²	102	(259) [Rn] 5f ¹³ 7s ²	103	(262) [Rn] 5f ¹⁴ 7s ²
Ac	Actinium	Th	Thorium	Pa	Protactinium	U	Uranium	Np	Neptunium	Pu	Plutonium	Am	Americium	Cm	Berkelium	Cf	Einsteinium	Fm	Mendelevium	No	Lawrencium								

(2) The relative atomic mass is given with five significant digits. For items that do not have a stable radionuclide, the value in parentheses indicates the mass number of the isotope of the element with the longest half-life. However, the three elements Th, Pa and Pu which have a characteristic terrestrial isotopic composition, an atomic weight is indicated.

(3) The electronic configurations for which there is doubt are not given.

<http://www.iupac.org/publications/pac/2006/pdf/7811x2051.pdf>