TABLA PERIÓDICA DE LOS ELEMENTOS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 1766																	2 He 1868
2	3 Li 1817	4 Be 1798											5 B 1808	6 C ****	7 N 1772	8 O 1774	9 F 1886	10 Ne 1898
3	11 Na 1807	12 Mg 1808											13 Al 1827	14 Si 1824	15 P 1669	16 S ****	17 Cl 1774	18 Ar 1894
4	19 K 1807	20 Ca 1808	21 Sc 1879	22 Ti 1791	23 V 1801	24 Cr 1797	25 Mn 1774	26 Fe -3000	27 Co 1735	28 Ni 1751	29 Cu -9000	30 Zn 1746	31 Ga 1875	32 Ge 1886	33 As 1250?	34 Se 1817	35 Br 1826	36 Kr 1898
5	37 Rb 1861	38 Sr 1808	39 Y 1843	40 Zr 1789	41 Nb 1801	42 Mo 1781	43 Tc 1937	44 Ru 1844	45 Rh 1803	46 Pd 1803	47 Ag -3000	48 Cd 1817	49 In 1863	50 Sn -3000	51 Sb 1492?	52 Te 1782	53 I 1811	54 Xe 1898
6	55 Cs 1860	56 Ba 1808	71 * Lu 1907	72 Hf 1923	73 Ta 1802	74 W 1783	75 Re 1925	76 Os 1803	77 Ir 1803	78 Pt 1748	79 Au -5000	80 Hg -2000	81 Tl 1861	82 Pb -3000	83 Bi 1450?	84 Po 1898	85 At 1940	86 Rn 1900
7	87 Fr 1939	88 Ra 1898	103 * Lr 1961	104 Rf 1964	105 Db 1967	106 Sg 1974	107 Bh 1981	108 Hs 1984	109 Mt 1982	110 Ds 1994	111 Rg 1994	112 Uub 1996	113 Uut	114 Uuq 1998	115 Uup	116 Uuh 1999	117 Uus	118 Uuo 1999

*	57 La 1839	58 Ce 1803	59 Pr 1885	60 Nd 1885	61 Pm 1945	62 Sm 1879	63 Eu 1901	64 Gd 1880	65 Tb 1843	66 Dy 1886	67 Ho 1878	68 Er 1842	69 Tm 1879	70 Yb 1878
*	89 Ac 1899	90 Th 1828	91 Pa 1913	92 U 1789	93 Np 1940	94 Pu 1940	95 Am 1944	96 Cm 1944	97 Bk 1949	98 Cf 1950	99 Es 1952	100 Fm 1952	101 Md 1955	102 No 1958

101
Md
1955

TABLA PERIÓDICA DE LOS ELEMENTOS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H Hidrógeno																	2 He Helio
2	3 Li Litio	4 Be Berilio											5 B Boro	6 C Carbono	7 N Nitrógeno	8 O Oxígeno	9 F Flúor	10 Ne Neón
3	11 Na Sodio	12 Mg Magnesio											13 Al Aluminio	14 Si Silicio	15 P Fósforo	16 S Azufre	17 Cl Cloro	18 Ar Argón
4	19 K Potasio	20 Ca Calcio	21 Sc Escandio	22 Ti Titanio	23 V Vanadio	24 Cr Cromo	25 Mn Manganase	26 Fe Hierro	27 Co Cobalto	28 Ni Níquel	29 Cu Cobre	30 Zn Cinc	31 Ga Galio	32 Ge Germanio	33 As Arsénico	34 Se Selenio	35 Br Bromo	36 Kr Criptón
5	37 Rb Rubidio	38 Sr Estroncio	39 Y Itrio	40 Zr Circonio	41 Nb Niobio	42 Mo Molibdeno	43 Tc Tecnecio	44 Ru Rutenio	45 Rh Rodio	46 Pd Paladio	47 Ag Plata	48 Cd Cadmio	49 In Indio	50 Sn Estaño	51 Sb Antimonio	52 Te Teluro	53 I Yodo	54 Xe Xenón
6	55 Cs Cesio	56 Ba Bario	71 * Lu Lutecio	72 Hf Hafnio	73 Ta Tántalo	74 W Wolframio	75 Re Renio	76 Os Osmio	77 Ir Iridio	78 Pt Platino	79 Au Oro	80 Hg Mercurio	81 Tl Talio	82 Pb Plomo	83 Bi Bismuto	84 Po Polonio	85 At Astato	86 Rn Radón
7	87 Fr Francio	88 Ra Radio	103 * Lr Laurencio	104 Rf Rutherfordio	105 Db Dubnio	106 Sg Seaborgio	107 Bh Bohrio	108 Hs Hassio	109 Mt Meitnerio	110 Ds Darmstadtio	111 Rg Roentgenio	112 Uub	113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo

*	57 La Lantano	58 Ce Cerio	59 Pr Praseodimio	60 Nd Neodimio	61 Pm Prometio	62 Sm Samario	63 Eu Europio	64 Gd Gadolinio	65 Tb Terbio	66 Dy Disprosio	67 Ho Holmio	68 Er Erbio	69 Tm Tulio	70 Yb Iterbio
*	89 Ac Actinio	90 Th Torio	91 Pa Protactinio	92 U Uranio	93 Np Neptunio	94 Pu Plutonio	95 Am Americio	96 Cm Curio	97 Bk Berquelio	98 Cf Californio	99 Es Einstenio	100 Fm Fermio	101 Md Mendelevio	102 No Nobelio

101
Md
Mendelevio

CONFIGURACIONES ELECTRÓNICAS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	$1s^1$																	$1s^2$
2	$1s^2$ $2s^1$	$1s^2$ $2s^2$											$1s^2$ $2s^2p^1$	$1s^2$ $2s^2p^2$	$1s^2$ $2s^2p^3$	$1s^2$ $2s^2p^4$	$1s^2$ $2s^2p^5$	$1s^2$ $2s^2p^6$
3	$1s^2$ $2s^2p^6$ $3s^1$	$1s^2$ $2s^2p^6$ $3s^2$											$1s^2$ $2s^2p^6$ $3s^2p^1$	$1s^2$ $2s^2p^6$ $3s^2p^2$	$1s^2$ $2s^2p^6$ $3s^2p^3$	$1s^2$ $2s^2p^6$ $3s^2p^4$	$1s^2$ $2s^2p^6$ $3s^2p^5$	$1s^2$ $2s^2p^6$ $3s^2p^6$
4	$1s^2$ $2s^2p^6$ $3s^2p^6$ $4s^1$	$1s^2$ $2s^2p^6$ $3s^2p^6$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^1$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^2$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^3$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^4$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^5$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^6$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^7$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^8$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^9$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^1$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^3$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^4$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^5$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^6$
5	Kr $5s^1$	Kr $5s^2$	Kr $4d^1$ $5s^2$	Kr $4d^2$ $5s^2$	Kr $4d^3$ $5s^2$	Kr $4d^4$ $5s^2$	Kr $4d^5$ $5s^2$	Kr $4d^6$ $5s^2$	Kr $4d^7$ $5s^2$	Kr $4d^8$ $5s^2$	Kr $4d^9$ $5s^2$	Kr $4d^{10}$ $5s^2$	Kr $4d^{10}$ $5s^2p^1$	Kr $4d^{10}$ $5s^2p^2$	Kr $4d^{10}$ $5s^2p^3$	Kr $4d^{10}$ $5s^2p^4$	Kr $4d^{10}$ $5s^2p^5$	Kr $4d^{10}$ $5s^2p^6$
6	Xe $6s^1$	Xe $6s^2$	Xe $4f^{14}$ $5d^1$ $6s^2$	Xe $4f^{14}$ $5d^2$ $6s^2$	Xe $4f^{14}$ $5d^3$ $6s^2$	Xe $4f^{14}$ $5d^4$ $6s^2$	Xe $4f^{14}$ $5d^5$ $6s^2$	Xe $4f^{14}$ $5d^6$ $6s^2$	Xe $4f^{14}$ $5d^7$ $6s^2$	Xe $4f^{14}$ $5d^8$ $6s^2$	Xe $4f^{14}$ $5d^9$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^1$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^3$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^4$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^5$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^6$
7	Rn $7s^1$	Rn $7s^2$	Rn $5f^{14}$ $6d^1$ $7s^2$	Rn $5f^{14}$ $6d^2$ $7s^2$	Rn $5f^{14}$ $6d^3$ $7s^2$	Rn $5f^{14}$ $6d^4$ $7s^2$	Rn $5f^{14}$ $6d^5$ $7s^2$	Rn $5f^{14}$ $6d^6$ $7s^2$	Rn $5f^{14}$ $6d^7$ $7s^2$	Rn $5f^{14}$ $6d^8$ $7s^2$	Rn $5f^{14}$ $6d^9$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^1$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^3$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^4$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^5$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^6$

*	Xe $4f^1$ $6s^2$	Xe $4f^2$ $6s^2$	Xe $4f^3$ $6s^2$	Xe $4f^4$ $6s^2$	Xe $4f^5$ $6s^2$	Xe $4f^6$ $6s^2$	Xe $4f^7$ $6s^2$	Xe $4f^8$ $6s^2$	Xe $4f^9$ $6s^2$	Xe $4f^{10}$ $6s^2$	Xe $4f^{11}$ $6s^2$	Xe $4f^{12}$ $6s^2$	Xe $4f^{13}$ $6s^2$	Xe $4f^{14}$ $6s^2$
*	Rn $5f^1$ $7s^2$	Rn $5f^2$ $7s^2$	Rn $5f^3$ $7s^2$	Rn $5f^4$ $7s^2$	Rn $5f^5$ $7s^2$	Rn $5f^6$ $7s^2$	Rn $5f^7$ $7s^2$	Rn $5f^8$ $7s^2$	Rn $5f^9$ $7s^2$	Rn $5f^{10}$ $7s^2$	Rn $5f^{11}$ $7s^2$	Rn $5f^{12}$ $7s^2$	Rn $5f^{13}$ $7s^2$	Rn $5f^{14}$ $7s^2$

CONFIGURACIONES ELECTRÓNICAS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	$1s^1$																	$1s^2$
2	He $2s^1$	He $2s^2$											He $2s^2p^1$	He $2s^2p^2$	He $2s^2p^3$	He $2s^2p^4$	He $2s^2p^5$	He $2s^2p^6$
3	Ne $3s^1$	Ne $3s^2$											Ne $3s^2p^1$	Ne $3s^2p^2$	Ne $3s^2p^3$	Ne $3s^2p^4$	Ne $3s^2p^5$	Ne $3s^2p^6$
4	Ar $4s^1$	Ar $4s^2$	Ar $3d^1$ $4s^2$	Ar $3d^2$ $4s^2$	Ar $3d^3$ $4s^2$	Ar $3d^4$ $4s^2$	Ar $3d^5$ $4s^2$	Ar $3d^6$ $4s^2$	Ar $3d^7$ $4s^2$	Ar $3d^8$ $4s^2$	Ar $3d^9$ $4s^2$	Ar $3d^{10}$ $4s^2$	Ar $3d^{10}$ $4s^2p^1$	Ar $3d^{10}$ $4s^2p^2$	Ar $3d^{10}$ $4s^2p^3$	Ar $3d^{10}$ $4s^2p^4$	Ar $3d^{10}$ $4s^2p^5$	Ar $3d^{10}$ $4s^2p^6$
5	Kr $5s^1$	Kr $5s^2$	Kr $4d^1$ $5s^2$	Kr $4d^2$ $5s^2$	Kr $4d^3$ $5s^2$	Kr $4d^4$ $5s^2$	Kr $4d^5$ $5s^2$	Kr $4d^6$ $5s^2$	Kr $4d^7$ $5s^2$	Kr $4d^8$ $5s^2$	Kr $4d^9$ $5s^2$	Kr $4d^{10}$ $5s^2$	Kr $4d^{10}$ $5s^2p^1$	Kr $4d^{10}$ $5s^2p^2$	Kr $4d^{10}$ $5s^2p^3$	Kr $4d^{10}$ $5s^2p^4$	Kr $4d^{10}$ $5s^2p^5$	Kr $4d^{10}$ $5s^2p^6$
6	Xe $6s^1$	Xe $6s^2$	Xe $4f^{14}$ $5d^1$ $6s^2$	Xe $4f^{14}$ $5d^2$ $6s^2$	Xe $4f^{14}$ $5d^3$ $6s^2$	Xe $4f^{14}$ $5d^4$ $6s^2$	Xe $4f^{14}$ $5d^5$ $6s^2$	Xe $4f^{14}$ $5d^6$ $6s^2$	Xe $4f^{14}$ $5d^7$ $6s^2$	Xe $4f^{14}$ $5d^8$ $6s^2$	Xe $4f^{14}$ $5d^9$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^1$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^3$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^4$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^5$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^6$
7	Rn $7s^1$	Rn $7s^2$	Rn $5f^{14}$ $6d^1$ $7s^2$	Rn $5f^{14}$ $6d^2$ $7s^2$	Rn $5f^{14}$ $6d^3$ $7s^2$	Rn $5f^{14}$ $6d^4$ $7s^2$	Rn $5f^{14}$ $6d^5$ $7s^2$	Rn $5f^{14}$ $6d^6$ $7s^2$	Rn $5f^{14}$ $6d^7$ $7s^2$	Rn $5f^{14}$ $6d^8$ $7s^2$	Rn $5f^{14}$ $6d^9$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^1$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^3$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^4$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^5$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^6$

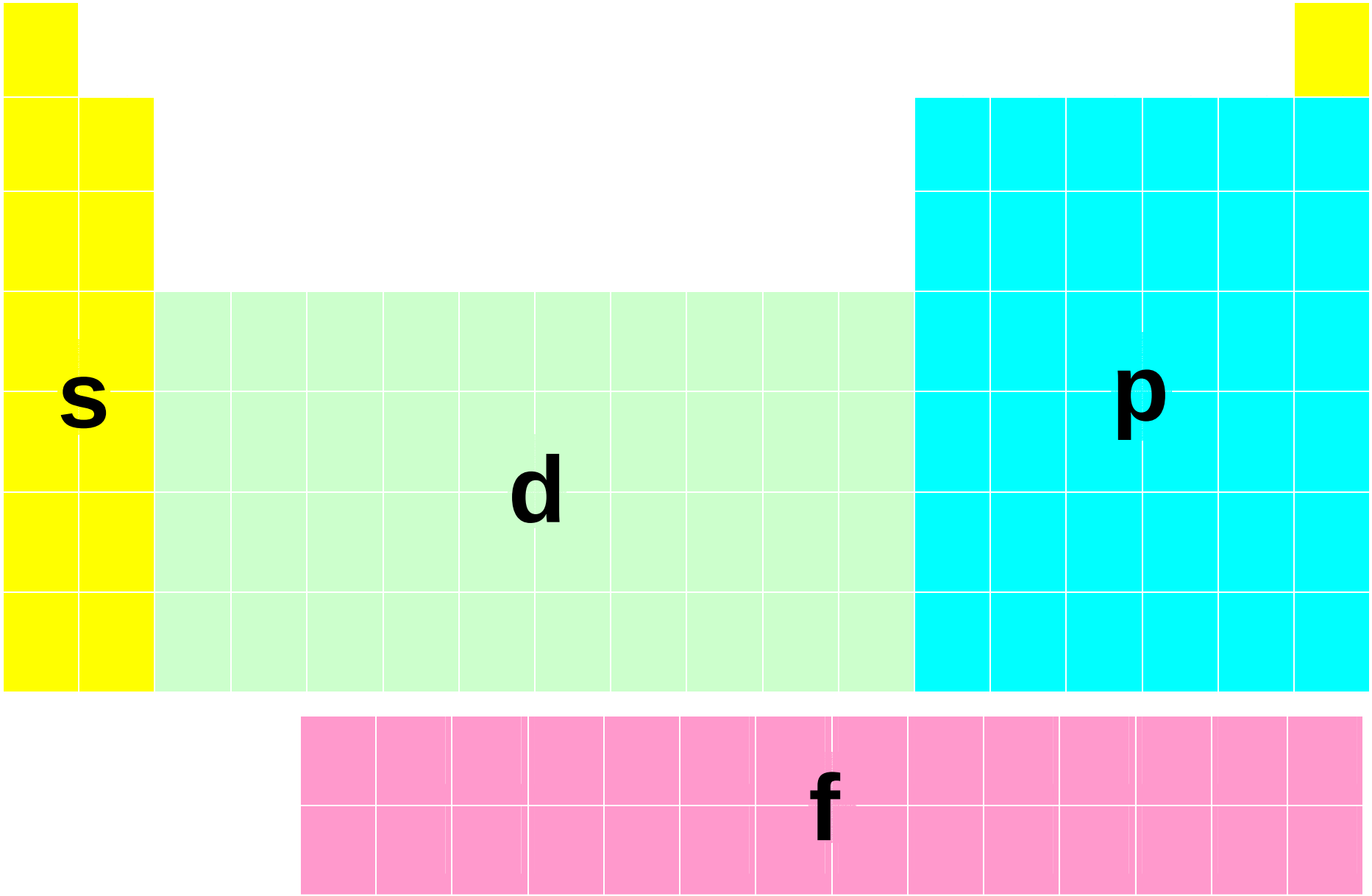
*	Xe $4f^1$ $6s^2$	Xe $4f^2$ $6s^2$	Xe $4f^3$ $6s^2$	Xe $4f^4$ $6s^2$	Xe $4f^5$ $6s^2$	Xe $4f^6$ $6s^2$	Xe $4f^7$ $6s^2$	Xe $4f^8$ $6s^2$	Xe $4f^9$ $6s^2$	Xe $4f^{10}$ $6s^2$	Xe $4f^{11}$ $6s^2$	Xe $4f^{12}$ $6s^2$	Xe $4f^{13}$ $6s^2$	Xe $4f^{14}$ $6s^2$
*	Rn $5f^1$ $7s^2$	Rn $5f^2$ $7s^2$	Rn $5f^3$ $7s^2$	Rn $5f^4$ $7s^2$	Rn $5f^5$ $7s^2$	Rn $5f^6$ $7s^2$	Rn $5f^7$ $7s^2$	Rn $5f^8$ $7s^2$	Rn $5f^9$ $7s^2$	Rn $5f^{10}$ $7s^2$	Rn $5f^{11}$ $7s^2$	Rn $5f^{12}$ $7s^2$	Rn $5f^{13}$ $7s^2$	Rn $5f^{14}$ $7s^2$

CONFIGURACIONES ELECTRÓNICAS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	$1s^1$																	$1s^2$
2	$1s^2$ $2s^1$	$1s^2$ $2s^2$											$1s^2$ $2s^2p^1$	$1s^2$ $2s^2p^2$	$1s^2$ $2s^2p^3$	$1s^2$ $2s^2p^4$	$1s^2$ $2s^2p^5$	$1s^2$ $2s^2p^6$
3	$1s^2$ $2s^2p^6$ $3s^1$	$1s^2$ $2s^2p^6$ $3s^2$											$1s^2$ $2s^2p^6$ $3s^2p^1$	$1s^2$ $2s^2p^6$ $3s^2p^2$	$1s^2$ $2s^2p^6$ $3s^2p^3$	$1s^2$ $2s^2p^6$ $3s^2p^4$	$1s^2$ $2s^2p^6$ $3s^2p^5$	$1s^2$ $2s^2p^6$ $3s^2p^6$
4	$1s^2$ $2s^2p^6$ $3s^2p^6$ $4s^1$	$1s^2$ $2s^2p^6$ $3s^2p^6$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^1$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^2$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^3$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^4$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^5$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^6$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^7$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^8$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^9$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^1$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^2$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^3$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^4$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^5$	$1s^2$ $2s^2p^6$ $3s^2p^6d^{10}$ $4s^2p^6$
5	Kr $5s^1$	Kr $5s^2$	Kr $4d^1$ $5s^2$	Kr $4d^2$ $5s^2$	Kr $4d^3$ $5s^2$	Kr $4d^4$ $5s^2$	Kr $4d^5$ $5s^2$	Kr $4d^6$ $5s^2$	Kr $4d^7$ $5s^2$	Kr $4d^8$ $5s^2$	Kr $4d^9$ $5s^2$	Kr $4d^{10}$ $5s^2$	Kr $4d^{10}$ $5s^2p^1$	Kr $4d^{10}$ $5s^2p^2$	Kr $4d^{10}$ $5s^2p^3$	Kr $4d^{10}$ $5s^2p^4$	Kr $4d^{10}$ $5s^2p^5$	Kr $4d^{10}$ $5s^2p^6$
6	Xe $6s^1$	Xe $6s^2$	Xe $4f^{14}$ $5d^1$ $6s^2$	Xe $4f^{14}$ $5d^2$ $6s^2$	Xe $4f^{14}$ $5d^3$ $6s^2$	Xe $4f^{14}$ $5d^4$ $6s^2$	Xe $4f^{14}$ $5d^5$ $6s^2$	Xe $4f^{14}$ $5d^6$ $6s^2$	Xe $4f^{14}$ $5d^7$ $6s^2$	Xe $4f^{14}$ $5d^8$ $6s^2$	Xe $4f^{14}$ $5d^9$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^1$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^2$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^3$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^4$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^5$	Xe $4f^{14}$ $5d^{10}$ $6s^2p^6$
7	Rn $7s^1$	Rn $7s^2$	Rn $5f^{14}$ $6d^1$ $7s^2$	Rn $5f^{14}$ $6d^2$ $7s^2$	Rn $5f^{14}$ $6d^3$ $7s^2$	Rn $5f^{14}$ $6d^4$ $7s^2$	Rn $5f^{14}$ $6d^5$ $7s^2$	Rn $5f^{14}$ $6d^6$ $7s^2$	Rn $5f^{14}$ $6d^7$ $7s^2$	Rn $5f^{14}$ $6d^8$ $7s^2$	Rn $5f^{14}$ $6d^9$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^1$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^2$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^3$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^4$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^5$	Rn $5f^{14}$ $6d^{10}$ $7s^2p^6$

*	Xe $4f^1$ $6s^2$	Xe $4f^2$ $6s^2$	Xe $4f^3$ $6s^2$	Xe $4f^4$ $6s^2$	Xe $4f^5$ $6s^2$	Xe $4f^6$ $6s^2$	Xe $4f^7$ $6s^2$	Xe $4f^8$ $6s^2$	Xe $4f^9$ $6s^2$	Xe $4f^{10}$ $6s^2$	Xe $4f^{11}$ $6s^2$	Xe $4f^{12}$ $6s^2$	Xe $4f^{13}$ $6s^2$	Xe $4f^{14}$ $6s^2$
*	Rn $5f^1$ $7s^2$	Rn $5f^2$ $7s^2$	Rn $5f^3$ $7s^2$	Rn $5f^4$ $7s^2$	Rn $5f^5$ $7s^2$	Rn $5f^6$ $7s^2$	Rn $5f^7$ $7s^2$	Rn $5f^8$ $7s^2$	Rn $5f^9$ $7s^2$	Rn $5f^{10}$ $7s^2$	Rn $5f^{11}$ $7s^2$	Rn $5f^{12}$ $7s^2$	Rn $5f^{13}$ $7s^2$	Rn $5f^{14}$ $7s^2$

CONFIGURACIONES ELECTRÓNICAS



ELECTRONEGATIVIDADES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2,20																	
2	0,98	1,57											2,04	2,55	3,04	3,44	3,98	
3	0,93	1,31											1,61	1,90	2,19	2,58	3,16	
4	0,82	1,00	1,36	1,54	1,63	1,66	1,55	1,83	1,88	1,91	1,90	1,65	1,81	2,01	2,18	2,55	2,96	3,00
5	0,82	0,95	1,22	1,33	1,6	2,16	1,9	2,2	2,28	2,20	1,93	1,69	1,78	1,96	2,05	2,1	2,66	2,6
6	0,79	0,89	1,27	1,3	1,5	2,36	1,9	2,2	2,20	2,28	2,54	2,00	1,62	2,33	2,02	2,0	2,2	
7	0,7	0,9																

*	1,10	1,12	1,13	1,14		1,17		1,20		1,22	1,23	1,24	1,25	
*	1,1	1,3	1,5	1,38	1,26	1,28	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3

TABLA PERIÓDICA DE LOS ELEMENTOS

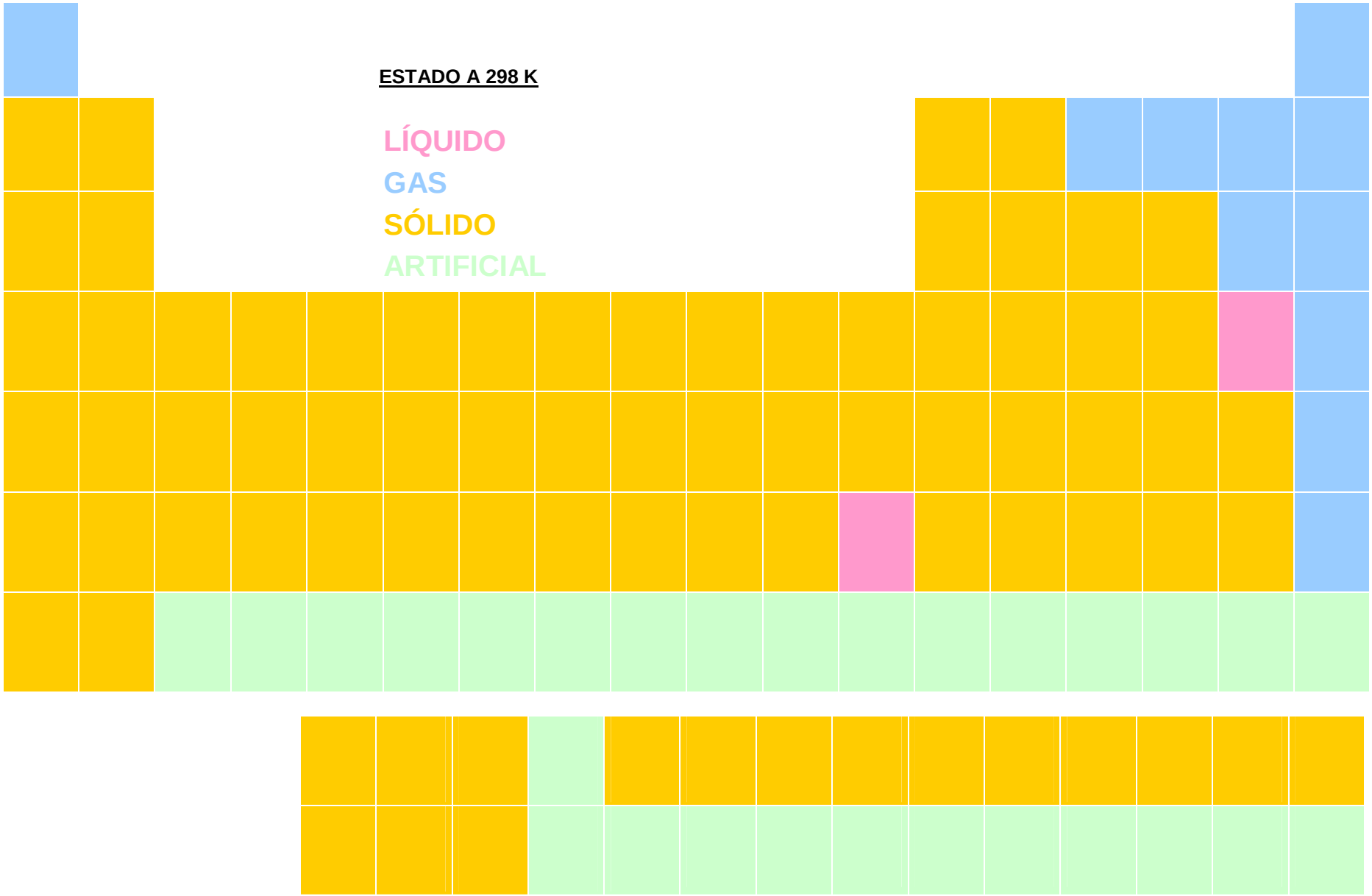
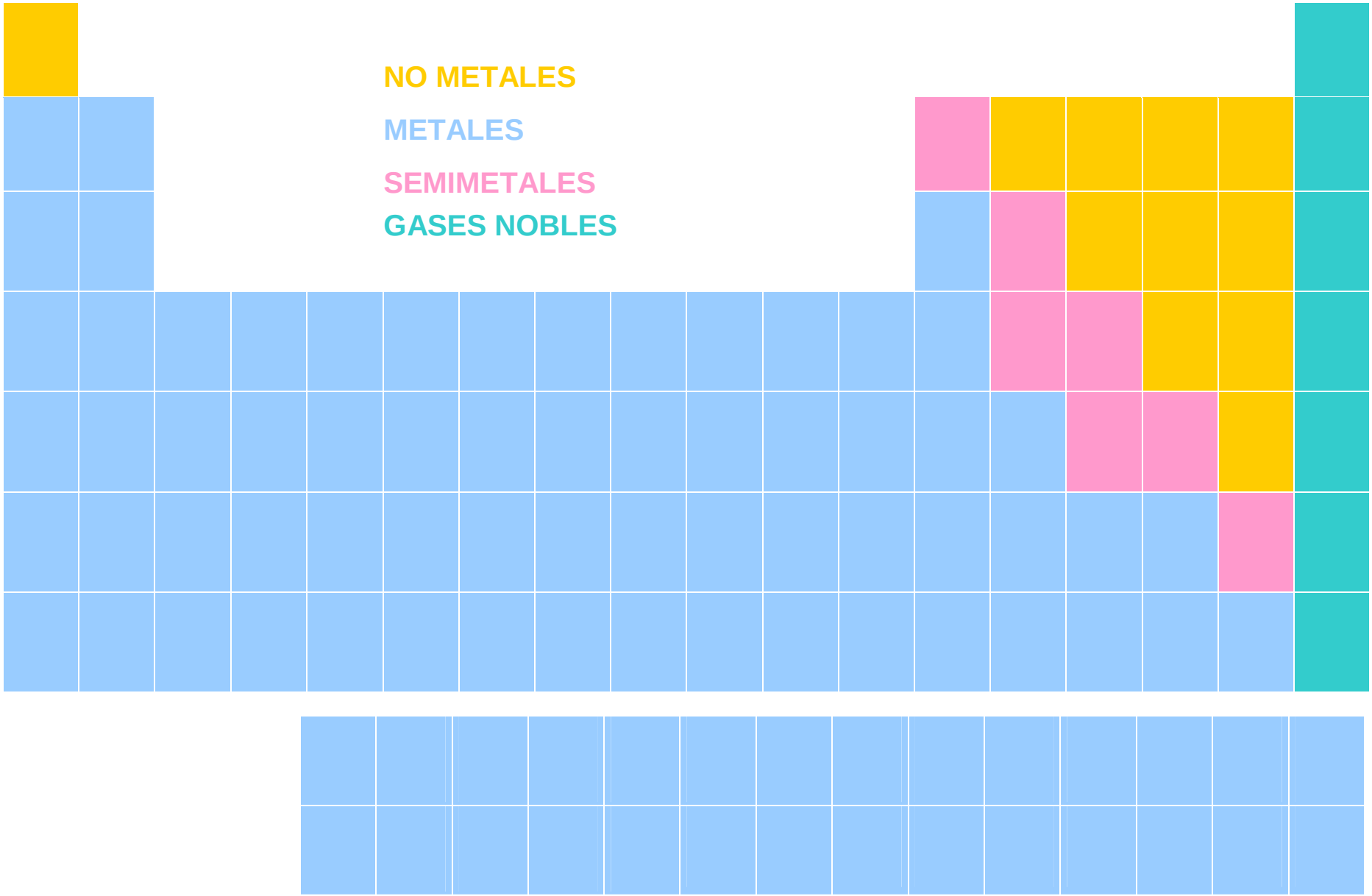


TABLA PERIÓDICA DE LOS ELEMENTOS



VALENCIAS

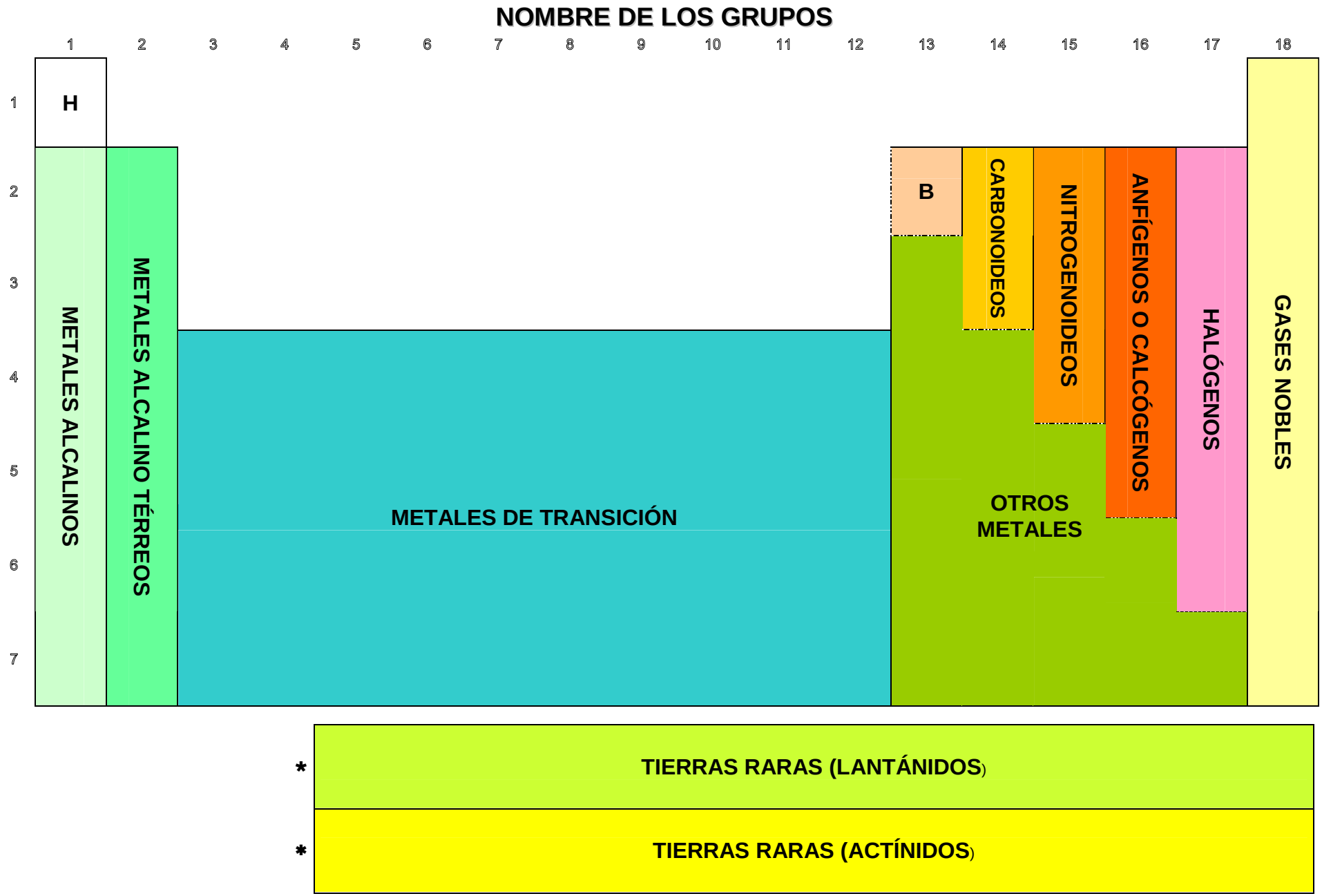
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H 1																	He
2	Li 1	Be 2											B 3	C 2,4	N 1,2,3, 4,5	O 2 (1)	F 1	Ne
3	Na 1	Mg 2											Al 3	Si 2,4	P 3,5	S 2,4,6	Cl 1,3,5,7	Ar
4	K 1	Ca 2	Sc 3	Ti 2,3,4	V 2,3,4,5	Cr 2,3,(6)	Mn 2,3, (4,6,7)	Fe 2,3	Co 2,3	Ni 2,3	Cu 1,2	Zn 2			As 3,5	Se 2,4,6	Br 1,3,5,7	Kr
5	Rb 1	Sr 2								Pd 2,4	Ag 1	Cd 2		Sn 2,4	Sb 3,5	Te 2,4,6	I 1,3,5,7	Xe
6	Cs 1	Ba 2								Pt 2,4	Au 1,3	Hg 1,2		Pb 2,4				Rn
7	Fr 1	Ra 2																

*														
*														

NÚMEROS DE OXIDACIÓN

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H +1																	He
2	Li +1	Be +2											B ±3	C +2, ±4	N ±1, ±2, ±3 +4,+5	O -1,-2	F -1	Ne
3	Na +1	Mg +2											Al +3	Si +2, ±4	P ±3,+5	S ±2,+4,+6	Cl ±1 +3,+5,+7	Ar
4	K +1	Ca +2	Sc +3	Ti +2,+3,+4	V +2,+3	Cr +2,+3	Mn +2,+3 +4,+6,+7	Fe +2,+3	Co +2,+3	Ni +2,+3	Cu +1,+2	Zn +2	Ga +1,+3	Ge +2,+4	As ±3,+5	Se -2,+4,+6	Br ±1 +3,+5,+7	Kr
5	Rb +1	Sr +2	Y +3	Zr +3,+4	Nb +2,+3	Mo +2,+3	Tc +4,+5 +6,+7	Ru +2,+3 +4,+5,+6	Rh +2,+3 +4,+5,+6	Pd +2,+4	Ag +1	Cd +2	In +1,+3	Sn +2,+4	Sb ±3,+5	Te ±2,+4,+6	I ±1 +3,+5,+7	Xe
6	Cs +1	Ba +2	Lu	Hf +3,+4	Ta	W +2,+3	Re +2,+3 (+4,+6,+7)	Os +2,+3 +4,+5,+6	Ir +2,+3 +4,+5,+6	Pt +2,+4	Au +1,+3	Hg +1,+2	Tl +1,+3	Pb +2,+4	Bi +3,+5	Po ±2,+4,+6	At ±1,+5	Rn
7	Fr +1	Ra +2	Lr	Rf +3,+4	Db	Sg	Bh	Hs	Mt	Ds	Rg	Uub	Uut	Uuq	Uup	Uuh	Uus	Uuo

*	La +3	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
*	Ac +3	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No


NOMBRE DE LOS GRUPOS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
H
METALES ALCALINOS
METALES ALCALINO TÉRREOS
METALES DE TRANSICIÓN
B
CARBONOIDEOS
NITROGENOIDEOS
ANFÍGENOS O CALCÓGENOS
HALÓGENOS
GASES NOBLES
OTROS METALES
*
TIERRAS RARAS (LANTÁNIDOS)
*
TIERRAS RARAS (ACTÍNIDOS)

NÚMEROS DE OXIDACIÓN

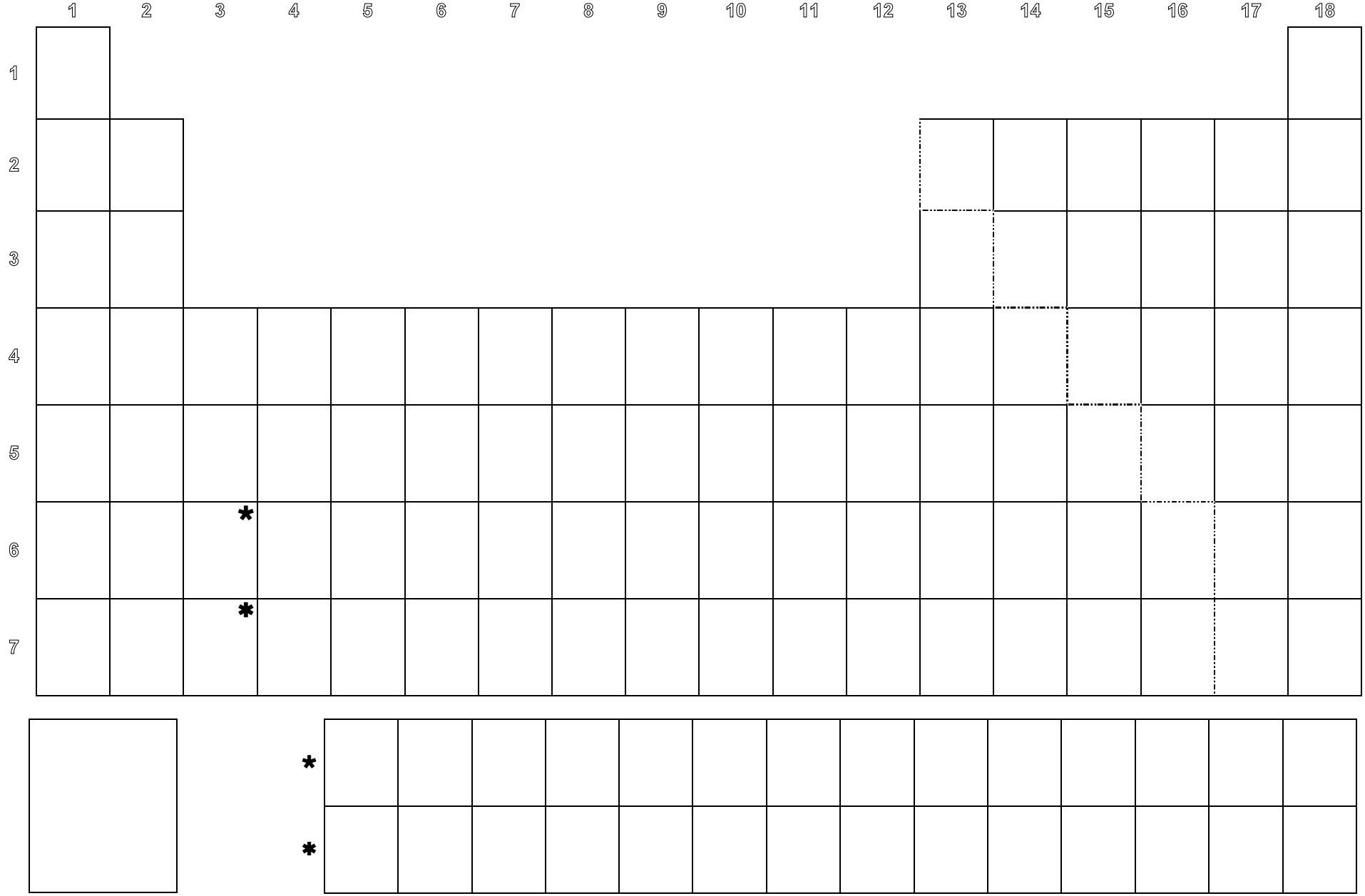
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	**H** ±1																	**He**
2	**Li** +1	**Be** +2											**B** ±3	**C** +2, ±4	**N** ±1, ±2, ±3 +4,+5	**O**** -1,-2	**F** -1	**Ne**
3	**Na** +1	**Mg** +2											**Al** +3	**Si** +2, ±4	**P** ±3,+5	**S** ±2,+4,+6	**Cl** ±1 +3,+5,+7	**Ar**
4	**K** +1	**Ca** +2				**Cr*** +2,+3 (+6)	**Mn*** +2,+3 (+4,+6,+7)	**Fe** +2,+3	**Co** +2,+3	**Ni** +2,+3	**Cu** +1,+2	**Zn** 2			**As** ±3,+5	**Se** -2,+4,+6	**Br** ±1 +3,+5,+7	**Kr**
5	**Rb** +1	**Sr** +2									**Ag** +1	**Cd** +2		**Sn** +2,+4	**Sb** ±3,+5	**Te** ±2,+4,+6	**I** ±1 +3,+5,+7	**Xe**
6	**Cs** +1	**Ba** +2								**Pt** +2,+4	**Au** +1,+3	**Hg** +1,+2		**Pb** +2,+4				**Rn**
7	**Fr** +1	**Ra** +2																

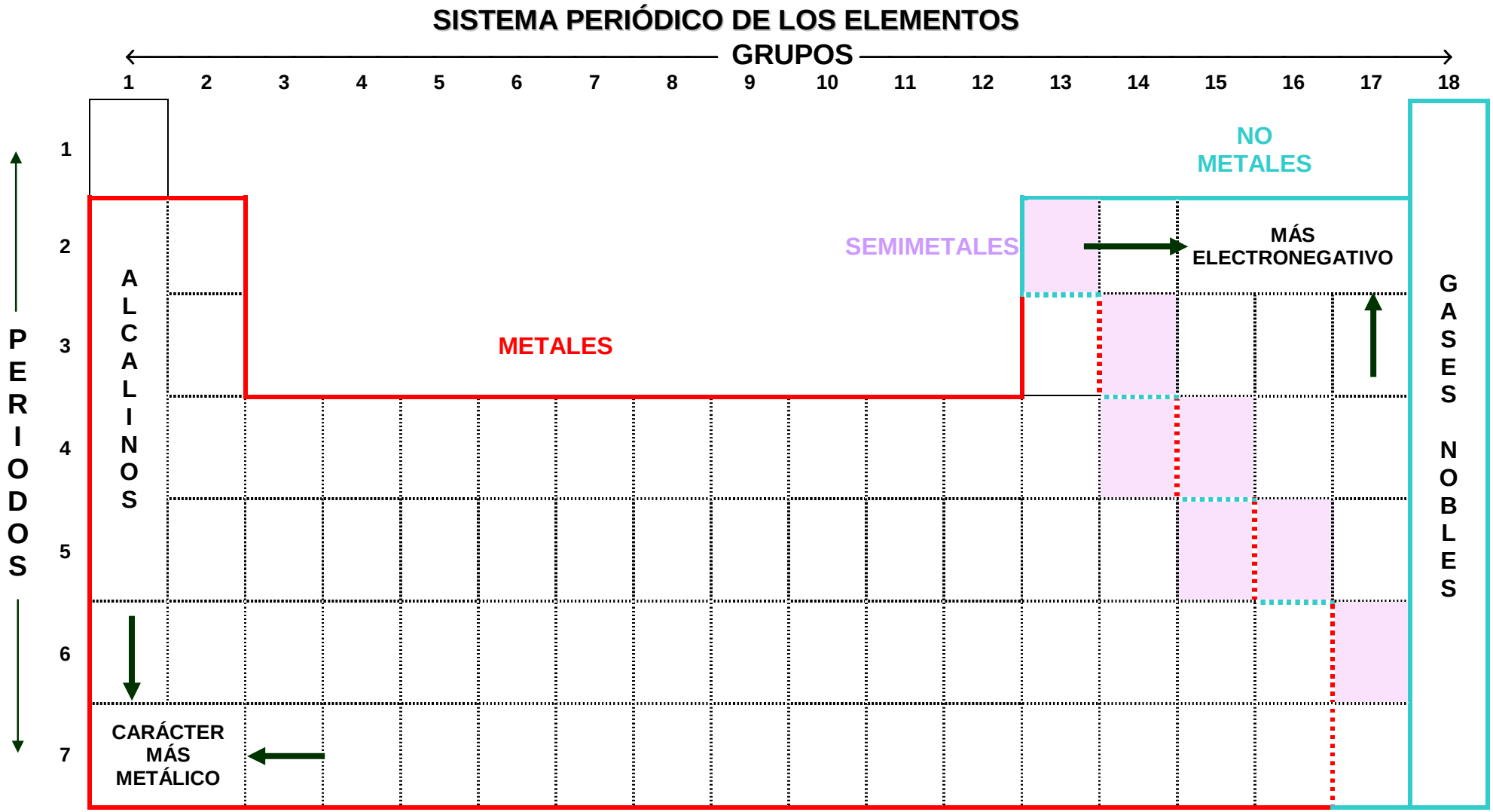
* Los números de oxidación que aparecen entre paréntesis son con los que actúan cuando forman compuestos ternarios, actuando como no metales.

** El oxígeno solo funciona con el número de oxidación -1 en los peróxidos.

*** Los no metales, cuando se combinan con el hidrógeno, actúan con el número de oxidación negativo, igual que cuando forman sales binarias.

TABLA PERIÓDICA DE LOS ELEMENTOS




SISTEMA PERIÓDICO DE LOS ELEMENTOS
GRUPOS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
PERIODOS
1 2 3 4 5 6 7
ALCALINOS
METALES
SEMIMETALES
NO METALES
MÁS ELECTRONEGATIVO
GASES NOBLES
CARÁCTER MÁS METÁLICO

NÚMEROS ATÓMICOS

1																																	2
3	4																											5	6	7	8	9	10
11	12																											13	14	15	16	17	18
19	20															21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
37	38															39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118

SÍMBOLOS

1	H																																He
2	Li	Be																									B	C	N	O	F	Ne
3	Na	Mg																									Al	Si	P	S	Cl	Ar
4	K	Ca														Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	Rb	Sr														Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	Cs	Ba	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	Rf	Db	Sg	Bh	Hs	M	Ds	Rg	Uub	Uut	Uuq	Uup	Uuh	Uus	Uuo

CONFIGURACIONES ELECTRÓNICAS

1	$1s^1$																																$1s^2$
2	$2s^1$	$2s^2$																									$2p^1$	$2p^2$	$2p^3$	$2p^4$	$2p^5$	$2p^6$
3	$3s^1$	$3s^2$																									$3p^1$	$3p^2$	$3p^3$	$3p^4$	$3p^5$	$3p^6$
4	$4s^1$	$4s^2$														$3d^1$	$3d^2$	$3d^3$	$3d^4$	$3d^5$	$3d^6$	$3d^7$	$3d^8$	$3d^9$	$3d^{10}$	$4p^1$	$4p^2$	$4p^3$	$4p^4$	$4p^5$	$4p^6$
5	$5s^1$	$5s^2$														$4d^1$	$4d^2$	$4d^3$	$4d^4$	$4d^5$	$4d^6$	$4d^7$	$4d^8$	$4d^9$	$4d^{10}$	$5p^1$	$5p^2$	$5p^3$	$5p^4$	$5p^5$	$5p^6$
6	$6s^1$	$6s^2$	$4f^1$	$4f^2$	$4f^3$	$4f^4$	$4f^5$	$4f^6$	$4f^7$	$4f^8$	$4f^9$	$4f^{10}$	$4f^{11}$	$4f^{12}$	$4f^{13}$	$4f^{14}$	$5d^1$	$5d^2$	$5d^3$	$5d^4$	$5d^5$	$5d^6$	$5d^7$	$5d^8$	$5d^9$	$5d^{10}$	$6p^1$	$6p^2$	$6p^3$	$6p^4$	$6p^5$	$6p^6$
7	$7s^1$	$7s^2$	$5f^1$	$5f^2$	$5f^3$	$5f^4$	$5f^5$	$5f^6$	$5f^7$	$5f^8$	$5f^9$	$5f^{10}$	$5f^{11}$	$5f^{12}$	$5f^{13}$	$5f^{14}$	$6d^1$	$6d^2$	$6d^3$	$6d^4$	$6d^5$	$6d^6$	$6d^7$	$6d^8$	$6d^9$	$6d^{10}$	$7p^1$	$7p^2$	$7p^3$	$7p^4$	$7p^5$	$7p^6$