

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1s	1H 1s ¹																	2He 1s ²
2s	3Li 2s ¹	4Be 2s ²																
3s	11Na 3s ¹	12Mg 3s ²																
4s	19K 4s ¹	20Ca 4s ²	3d 21Sc 4s ² 3d ¹	22Ti 4s ² 3d ²	23V 4s ² 3d ³	24Cr 4s ¹ 3d ⁵	25Mn 4s ² 3d ⁵	26Fe 4s ² 3d ⁶	27Co 4s ² 3d ⁷	28Ni 4s ² 3d ⁸	29Cu 4s ¹ 3d ¹⁰	30Zn 4s ² 3d ¹⁰						
5s	37Rb 5s ¹	38Sr 5s ²	4d 39Y 5s ² 4d ¹	40Zr 5s ² 4d ²	41Nb 5s ¹ 4d ⁴	42Mo 5s ¹ 4d ⁵	43Tc 5s ² 4d ⁵	44Ru 5s ¹ 4d ⁷	45Rh 5s ¹ 4d ⁸	46Pd 4d ¹⁰	47Ag 5s ¹ 4d ¹⁰	48Cd 5s ² 4d ¹⁰						
6s	55Cs 6s ¹	56Ba 6s ²	5d 57La 6s ² 5d ¹	* 72Hf 6s ² 5d ²	73Ta 6s ² 5d ³	74W 6s ² 5d ⁴	75Re 6s ² 5d ⁵	76Os 6s ² 5d ⁶	77Ir 6s ² 5d ⁷	78Pt 6s ¹ 5d ⁹	79Au 6s ¹ 5d ¹⁰	80Hg 6s ² 5d ¹⁰						
7s	87Fr 7s ¹	88Ra 7s ²	6d 89Ac 7s ² 6d ¹	#														

bloc s

bloc d (éléments de transition)

bloc p

4f	*	58Ce 6s ² 4f ²	59Pr 6s ² 4f ³	60Nd 6s ² 4f ⁴	61Pm 6s ² 4f ⁵	62Sm 6s ² 4f ⁶	63Eu 6s ² 4f ⁷	64Gd 6s ² 5d ¹ 4f ⁷	65Tb 6s ² 4f ⁹	66Dy 6s ² 4f ¹⁰	67Ho 6s ² 4f ¹¹	68Er 6s ² 4f ¹²	69Tm 6s ² 4f ¹³	70Yb 6s ² 4f ¹⁴	71Lu 6s ² 5d ¹	lanthanides
5f	#	90Th 7s ² 6d ²	91Pa 7s ² 6d ³	92U 7s ² 6d ⁴	93Np 7s ² 5f ⁵	94Pu 7s ² 6d ¹ 5f ⁵	95Am 7s ² 5f ⁷	96Cm 7s ² 6d ¹ 5f ⁷	97Bk 7s ² 6d ¹ 5f ⁸	98Cf 7s ² 6d ¹ 5f ⁹	99Es 7s ² 6d ¹ 5f ¹⁰	100Fm 7s ² 6d ¹ 5f ¹¹	101Md 7s ² 6d ¹ 5f ¹²	102No 7s ² 6d ¹ 5f ¹³	103Lr 7s ² 6d ¹ 5f ¹⁴	actinides

bloc f (éléments de transition interne)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1s	1H 1s ¹																	2He 1s ²
2s	3Li 2s ¹	4Be 2s ²																
3s	11Na 3s ¹	12Mg 3s ²																
4s	19K 4s ¹	20Ca 4s ²	3d 21Sc 4s ² 3d ¹	22Ti 4s ² 3d ²	23V 4s ² 3d ³	24Cr 4s ¹ 3d ⁵	25Mn 4s ² 3d ⁵	26Fe 4s ² 3d ⁶	27Co 4s ² 3d ⁷	28Ni 4s ² 3d ⁸	29Cu 4s ¹ 3d ¹⁰	30Zn 4s ² 3d ¹⁰						
5s	37Rb 5s ¹	38Sr 5s ²	4d 39Y 5s ² 4d ¹	40Zr 5s ² 4d ²	41Nb 5s ¹ 4d ⁴	42Mo 5s ¹ 4d ⁵	43Tc 5s ² 4d ⁵	44Ru 5s ¹ 4d ⁷	45Rh 5s ¹ 4d ⁸	46Pd 4d ¹⁰	47Ag 5s ¹ 4d ¹⁰	48Cd 5s ² 4d ¹⁰						
6s	55Cs 6s ¹	56Ba 6s ²	5d 57La 6s ² 5d ¹	* 72Hf 6s ² 5d ²	73Ta 6s ² 5d ³	74W 6s ² 5d ⁴	75Re 6s ² 5d ⁵	76Os 6s ² 5d ⁶	77Ir 6s ² 5d ⁷	78Pt 6s ¹ 5d ⁹	79Au 6s ¹ 5d ¹⁰	80Hg 6s ² 5d ¹⁰						
7s	87Fr 7s ¹	88Ra 7s ²	6d 89Ac 7s ² 6d ¹	# 104Rf	105Db	106Sg	107Bh	108Hs	109Mt	110Ds	111Rg	112Cn						

bloc s

bloc d (éléments de transition)

bloc p

4f	*	58Ce 6s ² 4f ²	59Pr 6s ² 4f ³	60Nd 6s ² 4f ⁴	61Pm 6s ² 4f ⁵	62Sm 6s ² 4f ⁶	63Eu 6s ² 4f ⁷	64Gd 6s ² 5d ¹ 4f ⁷	65Tb 6s ² 4f ⁹	66Dy 6s ² 4f ¹⁰	67Ho 6s ² 4f ¹¹	68Er 6s ² 4f ¹²	69Tm 6s ² 4f ¹³	70Yb 6s ² 4f ¹⁴	71Lu 6s ² 5d ¹	lanthanides
5f	#	90Th 7s ² 6d ²	91Pa 7s ² 6d ³	92U 7s ² 6d ⁴	93Np 7s ² 5f ⁵	94Pu 7s ² 6d ¹ 5f ⁵	95Am 7s ² 5f ⁷	96Cm 7s ² 6d ¹ 5f ⁷	97Bk 7s ² 6d ¹ 5f ⁸	98Cf 7s ² 6d ¹ 5f ⁹	99Es 7s ² 6d ¹ 5f ¹⁰	100Fm 7s ² 6d ¹ 5f ¹¹	101Md 7s ² 6d ¹ 5f ¹²	102No 7s ² 6d ¹ 5f ¹³	103Lr 7s ² 6d ¹ 5f ¹⁴	actinides

bloc f (éléments de transition interne)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
1s	1H																	2He		
	1s ¹																	1s ²		
2s	3Li	4Be																		
	2s ¹	2s ²																		
3s	11Na	12Mg																		
	3s ¹	3s ²																		
4s	19K	20Ca	3d	21Sc	22Ti	23V	24Cr	25Mn	26Fe	27Co	28Ni	29Cu	30Zn	4p	31Ga	32Ge	33As	34Se	35Br	36Kr
	4s ¹	4s ²		4s ² 3d ¹	4s ² 3d ²	4s ² 3d ³	4s ¹ 3d ⁵	4s ² 3d ⁵	4s ² 3d ⁶	4s ² 3d ⁷	4s ² 3d ⁸	4s ¹ 3d ¹⁰	4s ² 3d ¹⁰		4s ² 4p ¹	4s ² 4p ²	4s ² 4p ³	4s ² 4p ⁴	4s ² 4p ⁵	4s ² 4p ⁶
5s	37Rb	38Sr	4d	39Y	40Zr	41Nb	42Mo	43Tc	44Ru	45Rh	46Pd	47Ag	48Cd	5p	49In	50Sn	51Sb	52Te	53I	54Xe
	5s ¹	5s ²		5s ² 4d ¹	5s ² 4d ²	5s ¹ 4d ⁴	5s ¹ 4d ⁵	5s ² 4d ⁵	5s ¹ 4d ⁷	5s ¹ 4d ⁸	4d ¹⁰	5s ¹ 4d ¹⁰	5s ² 4d ¹⁰		5s ² 5p ¹	5s ² 5p ²	5s ² 5p ³	5s ² 5p ⁴	5s ² 5p ⁵	5s ² 5p ⁶
6s	55Cs	56Ba	5d	57La	72Hf	73Ta	74W	75Re	76Os	77Ir	78Pt	79Au	80Hg	6p	81Tl	82Pb	83Bi	84Po	85At	86Rn
	6s ¹	6s ²		6s ² 5d ¹	* 6s ² 5d ²	6s ² 5d ³	6s ² 5d ⁴	6s ² 5d ⁵	6s ² 5d ⁶	6s ² 5d ⁷	6s ¹ 5d ⁹	6s ¹ 5d ¹⁰	6s ² 5d ¹⁰		6s ² 6p ¹	6s ² 6p ²	6s ² 6p ³	6s ² 6p ⁴	6s ² 6p ⁵	6s ² 6p ⁶
7s	87Fr	88Ra	6d	89Ac	104Rf	105Db	106Sg	107Bh	108Hs	109Mt	110Ds	111Rg	112Cn	7p	113Nh	114Fl	115Mc	116Lv	117Ts	118Og
	7s ¹	7s ²		7s ² 6d ¹	#															

bloc s

bloc d (éléments de transition)

bloc p

4f	*	58Ce 6s ² 4f ²	59Pr 6s ² 4f ³	60Nd 6s ² 4f ⁴	61Pm 6s ² 4f ⁵	62Sm 6s ² 4f ⁶	63Eu 6s ² 4f ⁷	64Gd 6s ² 5d ¹ 4f ⁷	65Tb 6s ² 4f ⁹	66Dy 6s ² 4f ¹⁰	67Ho 6s ² 4f ¹¹	68Er 6s ² 4f ¹²	69Tm 6s ² 4f ¹³	70Yb 6s ² 4f ¹⁴	71Lu 6s ² 5d ¹	lanthanides
5f	#	90Th 7s ² 6d ²	91Pa 7s ² 6d ³	92U 7s ² 6d ⁴	93Np 7s ² 5f ⁵	94Pu 7s ² 6d ¹ 5f ⁶	95Am 7s ² 5f ⁷	96Cm 7s ² 6d ¹ 5f ⁷	97Bk 7s ² 6d ¹ 5f ⁸	98Cf 7s ² 6d ¹ 5f ⁹	99Es 7s ² 6d ¹ 5f ¹⁰	100Fm 7s ² 6d ¹ 5f ¹¹	101Md 7s ² 6d ¹ 5f ¹²	102No 7s ² 6d ¹ 5f ¹³	103Lr 7s ² 6d ¹ 5f ¹⁴	actinides

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1s	1H 1s ¹																	2He 1s ²
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3s	11Na 3s ¹	12Mg 3s ²																
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5s	37Rb 5s ¹	38Sr 5s ²	4d 39Y 5s ² 4d ¹	40Zr 5s ² 4d ²	41Nb 5s ¹ 4d ⁴	42Mo 5s ¹ 4d ⁵	43Tc 5s ² 4d ⁵	44Ru 5s ¹ 4d ⁷	45Rh 5s ¹ 4d ⁸	46Pd 4d ¹⁰	47Ag 5s ¹ 4d ¹⁰	48Cd 5s ² 4d ¹⁰						
6s	55Cs 6s ¹	56Ba 6s ²	5d 57La 6s ² 5d ¹	* 72Hf 6s ² 5d ²	73Ta 6s ² 5d ³	74W 6s ² 5d ⁴	75Re 6s ² 5d ⁵	76Os 6s ² 5d ⁶	77Ir 6s ² 5d ⁷	78Pt 6s ¹ 5d ⁹	79Au 6s ¹ 5d ¹⁰	80Hg 6s ² 5d ¹⁰						
7s	87Fr 7s ¹	88Ra 7s ²	6d 89Ac 7s ² 6d ¹	# 104Rf	105Db	106Sg	107Bh	108Hs	109Mt	110Ds	111Rg	112Cn						

bloc s

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4f	*	58Ce 6s ² 4f ²	59Pr 6s ² 4f ³	60Nd 6s ² 4f ⁴	61Pm 6s ² 4f ⁵	62Sm 6s ² 4f ⁶	63Eu 6s ² 4f ⁷	64Gd 6s ² 5d ¹ 4f ⁷	65Tb 6s ² 4f ⁹	66Dy 6s ² 4f ¹⁰	67Ho 6s ² 4f ¹¹	68Er 6s ² 4f ¹²	69Tm 6s ² 4f ¹³	70Yb 6s ² 4f ¹⁴	71Lu 6s ² 5d ¹	lanthanides
5f	#	90Th 7s ² 6d ²	91Pa 7s ² 6d ³	92U 7s ² 6d ⁴	93Np 7s ² 5f ⁵	94Pu 7s ² 6d ¹ 5f ⁵	95Am 7s ² 5f ⁷	96Cm 7s ² 6d ¹ 5f ⁷	97Bk 7s ² 6d ¹ 5f ⁸	98Cf 7s ² 6d ¹ 5f ⁹	99Es 7s ² 6d ¹ 5f ¹⁰	100Fm 7s ² 6d ¹ 5f ¹¹	101Md 7s ² 6d ¹ 5f ¹²	102No 7s ² 6d ¹ 5f ¹³	103Lr 7s ² 6d ¹ 5f ¹⁴	actinides

bloc f (éléments de transition interne)