

Periodic Table of the Elements

MAIN GROUP ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS									
I												III	IV	V	VI	VII	VIII	II			
K-orbit	1																			2	
	H																			He	
L-orbit	3	4																			10
	Li	Be																			Ne
	5.941	9.01218																			20.179
M-orbit	11	12																			18
	Na	Mg																			Ar
	22.98977	24.305																			39.948
N-orbit	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			
	39.0983	40.08	44.9559	47.88	50.9414	51.996	54.9380	55.847	58.9332	58.69	63.546	65.38	69.72	72.59	74.9216	78.96	79.904	83.80			
O-orbit	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			
	85.4678	87.62	88.9059	91.22	92.9064	95.94	(98)	101.07	102.9055	106.42	107.868	112.41	114.82	118.69	121.75	127.60	126.9045	131.29			
P-orbit	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*			
	132.9054	137.33	138.9055	178.49	180.9479	183.85	186.207	190.2	192.22	195.08	196.9665	200.59	204.383	207.2	208.9804	(209)	(210)	(222)			
Q-orbit	87	88	89	104	105	106	107	108	109												
	Fr*	Ra*	Ac*	Rf*	Ha*																
	(223)	226.0254	227.0278	(260)	(260)	(263)	(262)	(265)	(266)												
● LANTHANIDE ELEMENTS		58	59	60	61	62	63	64	65	66	67	68	69	70	71						
		Ce	Pr	Nd	Pm*	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu						
		140.12	140.9077	144.24	(145)	150.36	151.96	157.25	158.9254	162.50	164.9304	167.26	168.9342	173.04	174.967						
		798	81	81	165	1010	1.84	100	1.54	1072	1.62	822	1.85	1211	1.51	1280	1.59	1344	1.58		
		3257	1.1	3212	1.1	3127	1.2	-2700	1.54	3233	1.1	3074	1.2	3235	1.2	2720	1.2	2510	1.2		
		1720	1.65	1600	1.61	1132	1.42	640	1.40	641	964	1340	1340	1340	1340	1340	1340	1340	1340		
● ACTINIDE ELEMENTS		90	91	92	93	94	95	96	97	98	99	100	101	102	103						
		Th*	Pa*	U*	Np*	Pu*	Am*	Cm*	Bk*	Cf*	Es*	Fm*	Md*	No*	Lr*						
		232.0381	231.0359	238.0289	237.0482	(244)	(243)	(247)	(247)	(251)	(254)	(257)	(257)	(255)	(256)						
		1790	1.65	1600	1.61	1132	1.42	640	1.40	641	964	1340	1340	1340	1340	1340	1340	1340	1340		
		4790	1.3	1.5	3618	1.7	3902	1.3	3232	1.3	2607	1.3	2607	1.3	2607	1.3	2607	1.3	2607		

(209) Longest half-life isotope mass is chosen *all isotopes are radioactive, ¹⁾ 26 atm, ²⁾ 5 mm, ³⁾ subl., ⁴⁾ white, ⁵⁾ 28 atm

