

# Groups

Intl 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

US IA 1A VIII A 8A

Period	1	1	IIA 2A										III A 3A	IVA 4A	VA 5A	VIA 6A	VII A 7A	2	He	
		1											3	4	5	6	7	8	9	10
	2	3	4											5	6	7	8	9	10	
		Li	Be											B	C	N	O	F	Ne	
	3	11	12	IIIB	IVB	VB	VIB	VII B	----	VIII B	----	XIB	XIIB	13	14	15	16	17	18	
		Na	Mg	3B	4B	5B	6B	7B	-----	8B	-----	11B	12B	Al	Si	P	S	Cl	Ar	
	4	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		
5	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		
6	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		
7	87	88	+89	104	105	106	107	108	109	110	111	112								
	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	?	?	?								

# Families

Noble Gases

Halogens

Period

1	1																	2		
	H																	He		
	1.00797																	4.0026		
2	3	4													5	6	7	8	9	10
	Li	Be													B	C	N	O	F	Ne
	6.939	9.0122													10.811	12.0112	14.0067	15.9994	18.9984	20.183
3	11	12													13	14	15	16	17	18
	Na	Mg													Al	Si	P	S	Cl	Ar
	22.9898	24.312													26.9815	28.086	30.9738	32.064	35.453	39.948
4	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		
	39.102	40.08	44.956	47.90	50.942	51.996	54.9380	55.847	58.9332	58.71	63.54	65.37	69.72	72.59	74.9216	78.96	79.909	83.80		
5	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	88.905	91.22	92.906	95.94	98.906	101.07	102.905	106.42	107.870	112.40	114.82	118.69	121.75	127.60	126.904	131.30		
6	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		
	132.905	137.34	138.91	178.49	180.948	183.85	186.2	190.2	192.2	195.09	196.967	200.59	204.37	207.19	208.980	(210)	(210)	(222)		
7	87	88	+89	104	105	106	107	108	109	110	111	112								
	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	?	?	?								
	(223)	(226)	(227)	(261)	(262)	(266)	(262)	(265)	(266)	(271)	(272)	(277)								

Metals

# Families

