

1																17		18											
1 H ⁺ hydrogen																1 H ⁻ hydride		2 He helium											
2																													
3																13		14		15		16		17		18			
3 Li ⁺ lithium																5 B boron		6 C carbon		7 N ³⁻ nitride		8 O ²⁻ oxide		9 F ⁻ fluoride		10 Ne neon			
4																14		15		16		17		18					
4 Be ²⁺ beryllium																14 Si silicon		15 P ³⁻ phosphide		16 S ²⁻ sulfide		17 Cl ⁻ chloride		18 Ar argon					
11																13		14		15		16		17		18			
11 Na ⁺ sodium																13 Al ³⁺ aluminum		14 Si silicon		15 P ³⁻ phosphide		16 S ²⁻ sulfide		17 Cl ⁻ chloride		18 Ar argon			
12																12		13		14		15		16		17		18	
12 Mg ²⁺ magnesium																12 Zn ²⁺ zinc		13 Ga ³⁺ gallium		14 Ge ⁴⁺ germanium		15 As ³⁻ arsenide		16 Se ²⁻ selenide		17 Br ⁻ bromide		18 Kr krypton	
19																31		32		33		34		35		36			
19 K ⁺ potassium																31 Ga ³⁺ gallium		32 Ge ⁴⁺ germanium		33 As ³⁻ arsenide		34 Se ²⁻ selenide		35 Br ⁻ bromide		36 Kr krypton			
37																49		50		51		52		53		54			
37 Rb ⁺ rubidium																49 In ³⁺ indium		50 Sn ⁴⁺ tin (IV)		51 Sb ³⁺ antimony (III)		52 Te ²⁻ telluride		53 I ⁻ iodide		54 Xe xenon			
55																81		82		83		84		85		86			
55 Cs ⁺ cesium																81 Tl ⁺ thallium (I)		82 Pb ²⁺ lead (II)		83 Bi ³⁺ bismuth (III)		84 Po ²⁺ polonium (II)		85 At ⁻ astatide		86 Rn radon			
87																113		114		115		116		117		118			
87 Fr ⁺ francium																113 Nh ⁺ nihonium		114 Fl ²⁺ flerovium		115 Mc ³⁺ moscovium		116 Lv ⁴⁺ livermorium		117 Ts ⁵⁺ tennessine		118 Og ⁶⁺ oganesson			
88																119		120		121		122		123		124			
88 Ra ²⁺ radium																119 Uu ⁺ unbinilium		120 Uub ²⁺ unbinilium		121 Uut ³⁺ unbinilium		122 Uuq ⁴⁺ unbinilium		123 Uuh ⁵⁺ unbinilium		124 Uus ⁶⁺ unbinilium			
89																125		126		127		128		129		130			
89 Ac ³⁺ actinium																125 Uut ³⁺ unbinilium		126 Uuq ⁴⁺ unbinilium		127 Uuh ⁵⁺ unbinilium		128 Uus ⁶⁺ unbinilium		129 Uuh ⁷⁺ unbinilium		130 Uus ⁸⁺ unbinilium			
91																103		104		105		106		107		108			
91 Pa ⁵⁺ protactinium																103 Lr ³⁺ lawrencium		104 Nh ³⁺ nihonium		105 Fl ⁴⁺ flerovium		106 Mc ⁵⁺ moscovium		107 Lv ⁶⁺ livermorium		108 Ts ⁷⁺ tennessine			
92																104		105		106		107		108		109			
92 U ⁶⁺ uranium																104 Nh ³⁺ nihonium		105 Fl ⁴⁺ flerovium		106 Mc ⁵⁺ moscovium		107 Lv ⁶⁺ livermorium		108 Ts ⁷⁺ tennessine		109 Og ⁸⁺ oganesson			
93																105		106		107		108		109		110			
93 Np ⁵⁺ neptunium																105 Nh ³⁺ nihonium		106 Fl ⁴⁺ flerovium		107 Mc ⁵⁺ moscovium		108 Lv ⁶⁺ livermorium		109 Ts ⁷⁺ tennessine		110 Og ⁸⁺ oganesson			
94																106		107		108		109		110		111			
94 Pu ⁴⁺ plutonium																106 Nh ³⁺ nihonium		107 Fl ⁴⁺ flerovium		108 Mc ⁵⁺ moscovium		109 Lv ⁶⁺ livermorium		110 Ts ⁷⁺ tennessine		111 Og ⁸⁺ oganesson			
95																107		108		109		110		111		112			
95 Am ³⁺ americium																107 Nh ³⁺ nihonium		108 Fl ⁴⁺ flerovium		109 Mc ⁵⁺ moscovium		110 Lv ⁶⁺ livermorium		111 Ts ⁷⁺ tennessine		112 Og ⁸⁺ oganesson			
96																108		109		110		111		112		113			
96 Cm ³⁺ curium																108 Nh ³⁺ nihonium		109 Fl ⁴⁺ flerovium		110 Mc ⁵⁺ moscovium		111 Lv ⁶⁺ livermorium		112 Ts ⁷⁺ tennessine		113 Og ⁸⁺ oganesson			
97																109		110		111		112		113		114			
97 Bk ³⁺ berkelium																109 Nh ³⁺ nihonium		110 Fl ⁴⁺ flerovium		111 Mc ⁵⁺ moscovium		112 Lv ⁶⁺ livermorium		113 Ts ⁷⁺ tennessine		114 Og ⁸⁺ oganesson			
98																110		111		112		113		114		115			
98 Cf ³⁺ californium																110 Nh ³⁺ nihonium		111 Fl ⁴⁺ flerovium		112 Mc ⁵⁺ moscovium		113 Lv ⁶⁺ livermorium		114 Ts ⁷⁺ tennessine		115 Og ⁸⁺ oganesson			
99																111		112		113		114		115		116			
99 Es ³⁺ einsteinium																111 Nh ³⁺ nihonium		112 Fl ⁴⁺ flerovium		113 Mc ⁵⁺ moscovium		114 Lv ⁶⁺ livermorium		115 Ts ⁷⁺ tennessine		116 Og ⁸⁺ oganesson			
100																112		113		114		115		116		117			
100 Fm ³⁺ fermium																112 Nh ³⁺ nihonium		113 Fl ⁴⁺ flerovium		114 Mc ⁵⁺ moscovium		115 Lv ⁶⁺ livermorium		116 Ts ⁷⁺ tennessine		117 Og ⁸⁺ oganesson			
101																113		114		115		116		117		118			
101 Md ²⁺ mendelevium																113 Nh ³⁺ nihonium		114 Fl ⁴⁺ flerovium		115 Mc ⁵⁺ moscovium		116 Lv ⁶⁺ livermorium		117 Ts ⁷⁺ tennessine		118 Og ⁸⁺ oganesson			
102																114		115		116		117		118		119			
102 No ²⁺ nobelium																114 Nh ³⁺ nihonium		115 Fl ⁴⁺ flerovium		116 Mc ⁵⁺ moscovium		117 Lv ⁶⁺ livermorium		118 Ts ⁷⁺ tennessine		119 Og ⁸⁺ oganesson			
103																115		116		117		118		119		120			
103 Lr ³⁺ lawrencium																115 Nh ³⁺ nihonium		116 Fl ⁴⁺ flerovium		117 Mc ⁵⁺ moscovium		118 Lv ⁶⁺ livermorium		119 Ts ⁷⁺ tennessine		120 Og ⁸⁺ oganesson			

acetate	CH ₃ COO ⁻	TABLE OF POLYATOMIC IONS		oxalate	C ₂ O ₄ ²⁻
arsenate	AsO ₄ ³⁻	dihydrogen phosphate	H ₂ PO ₄ ⁻	perchlorate	ClO ₄ ⁻
arsenite	AsO ₃ ³⁻	hydrogen carbonate	HCO ₃ ⁻	periodate	IO ₄ ⁻
benzoate	C ₆ H ₅ COO ⁻	hydrogen oxalate	HC ₂ O ₄ ⁻	permanganate	MnO ₄ ⁻
borate	BO ₃ ³⁻	hydrogen sulfate	HSO ₄ ⁻	peroxide	O ₂ ²⁻
bromate	BrO ₃ ⁻	hydrogen sulfide	HS ⁻	phosphate	PO ₄ ³⁻
carbonate	CO ₃ ²⁻	hydrogen sulfite	HSO ₃ ⁻	pyrophosphate	P ₂ O ₇ ⁴⁻
chlorate	ClO ₃ ⁻	hydroxide	OH ⁻	sulfate	SO ₄ ²⁻
chlorite	ClO ₂ ⁻	hypochlorite	ClO ⁻	sulfite	SO ₃ ²⁻
chromate	CrO ₄ ²⁻	iodate	IO ₃ ⁻	thiocyanate	SCN ⁻
cyanate	CNO ⁻	monohydrogen phosphate	HPO ₄ ²⁻	thiosulfate	S ₂ O ₃ ²⁻
cyanide	CN ⁻	nitrate	NO ₃ ⁻	POSITIVE POLYATOMIC IONS	
dichromate	Cr ₂ O ₇ ²⁻	nitrite	NO ₂ ⁻	ammonium	NH ₄ ⁺
		orthosilicate	SiO ₄ ⁴⁻	hydronium	H ₃ O ⁺

