A 10 =: > =	7 6	4 70	w KN	
Based on mass of C-12 at 12.00. Any value in parentheses is the mass of the most stable or best known isotope for elements that do not occur naturally.	87 1 1 229 1 1 (223)	5 6 7	3 1+ L1 urhum 6.9 11 1+ Na Sodium 23.0	H H
mass of C- in parentl s of the m best known that do no	56 2+ Ba Barum 137:3 137:3 88 2+ Ra Ratum (226)	97.5	# 2+ Be # # # # # # # # # # # # # # # # # # #	
-12 at 12. neses ost n isotope t occur na	57 3+ La Lanthavum 138.9 89 3+ Ac Actinium (227)	0 0 0 0	ω	Alkaline Earl
oo.	72 4+ Hi Hathum 178.5 104 Ri Rufmerfordum (261)	CONTRACTOR SECURISION SECURIORISM	4	
58 3.4 Ce 4+ Centum 140.1 90 4+ Th Thorium 232.0	73 54 Ta Tarasam 180.9 105 Db Dazmum (262)	E SELVER FERENCES DE LE SERVE DE	non-	metal #
59 3+ Pr 4+ Prasodymium 140.9 91 5+ Protactrium 231.0	74 6+ W Tungam 183.8 106 Sg Seaborgum (263)		6	HZO Tandard
60 3+ Nd Nd Nd 144.2 92 6+ Uranium 5+ 238.0	7.5 4+ Re 7+ Re 7+ Re 7+ Re 186.2 107 Bh Bonum (262)	Mn 3+ Mn 4+ Marquess 54.9 7- 1 To 1 emean	Atomic Mass O Toylisifion 7	metal Atomic Number Symbol
61 3+ Pm Promothum (145) 93 5+ Np 3+	76 3+ Os 4+ Ownum 190.2 108 Hs Hasaum (265)	55.8 55.8 101.1	8 e nai	Periodic Table of the Elements Number 22 4+ — Ion charge(s)
E 2 2 2 2 5 8 2 8 C	77 3+ IV 4+ Indum 192.2 109 Mt Mathenum (286)	102.9	9 9	Table Table
Outhanide 3+ 63 3+ m 4+ Eu 2+ white Europeum 0.4 152.0 4+ 95 3+ 1 6+ Am 5+ Am 5+ Am 6+ Am 6+ (243)	78 44 Pultrum 195.1 110 Us Ds	NI 34 NG 34 NG 24 Pd 44 Paladan 106.4	10 Db	Atomic Mass le of the Element
64 3+ Gd Gd Gadolinum 157.3 96 3+ Cm Curlum (247)	79 3+ Au 1+ Cod 197.0 1111 Rg Romgonium (272)	Copper 1-1 107.9	synthetic	e Elemer
65 3+ Tb 4+ Tectum 158.9 97 3+ Bk 4+ Bertastum (247)	80 2+ Hg 1+ Mercury 200.6 112 Uub* Urunbium (285)	27 27 27 27 27 27 27 27 27 27 27 27 27 2	Metay Metay	ats of
66 3+ Dy Oxprosium 162.5 98 3+ CH Californium (251)	81 1+ 71 3+ Thalkin 204.4 113 Uut* Unanhum (284)	GG8 GB807 697 50 1114,8		3
67 3+ Ho Holmum 164.9 99 3+ Es Eratsinium (252)	82 2+ Pb 4+ Land 207.2 1114 Juq* Unarquedum (289)	Ge 72.6 50 44 Sn 24 118.7	14 Canon 12.0 14 Silvan 28.1	
168 3+ 69 3+ Er Tm 2+ 168.9 168.9 100 3+ 101 2+ Fm Md 3+ Md 3+ 168.9 (257) (258)	83 34 Bi 54 Blamuth 209.0 115 Uup* Uup* Uup*	And		1
69 3+ Tm 2+ Tm 2+ Thulum 168.9 101 2+ Md 3+ Mandolevium (258)	84 2+ Po 4+ Paterium (209) 116 Uuh* Urunharcum (292)	79.0 79.0 127.6		
70 3+ Yb 2+ Ybactum 173.0 102 2+ No 3+ Nobelium (259)	85 1- A1 (210)	80 1- 79.9 53 1- 126.9	S 7 7 7	Halogues
71 3+ Lueum 175.0 103 3+ Lr Lammendum (262)	86 0 Rin Rador (222) 118 Uuo* Uuo* Uuor (294)	131.3		Noble Graces
Reacon	Claim			S

Chemistry Data Tables

Table 1: Common Polyatomic Ions (and Valences)

Ion Name	Ion Formula (with Valence)
Nitrate	NO ₃
Hydroxide	OH-
Bicarbonate (hydrogen carbonate)	HCO ₃
Chlorate	ClO ₃
Carbonate	CO ₃ ² -
Sulphate	SO ₄ ²⁻
Phosphate	PO43-
Ammonium	NH_4^+
Chromate	NH_4^+ CrO_4^{2-}
Thiocyanate	SCN-
Acetate	CH ₂ COO

Table 2: Diatomic Molecules

Element Name	Chemical Symbol	Formula and State (at room temperature)	
Hydrogen	Н	H ₂ (gas)	
Nitrogen	N	N ₂ (gas)	
Oxygen .	O	O ₂ (gas)	
Fluorine	F	F ₂ (gas)	
Chlorine	Cl	Cl ₂ (gas)	
Bromine	Br	Br ₂ (liquid)	
Iodine	I	I ₂ (solid)	

Table 3: Combining Capacities on Non-Metal Atoms

4	3	2	1
C	N	0	Н
Si	P	S	F
	As	Se	Cl
			Br
			т

Table 4: Prefixes for Nomenclature:

Number	Prefix	Number	Prefix
1	Mono-	6	Hexa-
2	Di-	7	Hepta-
3	Tri-	8	Octa-
4	Tetra-	9	Nona-
5	Penta-	10	Deca-