	1 IA																	18 VIIIA
1	1 1.0079 H																	2 4.0025 He
	Hydrogen	2 IIA											13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	Helium
2	3 6.941 Li	4 9.0122 Be											5 10.811 B	6 12.011 C	7 14.007	8 15.999 O	9 18.998 F	10 20.180 Ne
2	Lithium	Beryllium											Boron	Carbon	Nitrogen	Oxygen	Flourine	Neon
ŀ		12 24.305											13 26.982	14 28.086	15 30.974	16 32.065	17 35.453	18 39.948
3	Na	Mg											AI	Si	Р	S	CI	Ar
	Sodium	Magnesium	3 IIIA	4 IVB	5 VB	6 VIB	7 VIIB	8 VIIIB	9 VIIIB	10 VIIIB	11 IB	12 IIB	Aluminium	Silicon	Phosphorus	Sulphur	Chlorine	Argon
	19 39.098	20 40.078	21 44.956	22 47.867	23 50.942	24 51.996	25 54.938	26 55.845	27 58.933	28 58.693	29 63.546	30 65.39	31 69.723	32 72.64	33 74.922	34 78.96	35 79.904	36 83.8
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	Potassium	Calcium	Scandium	Titanium	Vanadium	Chromium	Manganese	Iron	Cobalt	Nickel	Copper	Zinc	Gallium	Germanium	Arsenic	Selenium	Bromine	Krypton
	37 85.468		39 88.906	40 91.224	41 92.906	42 95.94	43 96	44 101.07	45 102.91	46 106.42	47 107.87	48 112.41	49 114.82	50 118.71	51 121.76	52 127.6	53 126.9	54 131.29
5	Rb	Sr	Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te		Xe
L	Rubidium	Strontium	Yttrium	Zirconium	Niobium	Molybdenum	Technetium	Ruthenium	Rhodium	Palladium	Silver	Cadmium	Indium	Tin	Antimony	Tellurium	lodine	Xenon
		56 137.33	57-71	72 178.49	73 180.95	74 183.84	75 186.21	76 190.23	77 192.22	78 195.08	79 196.97	80 200.59	81 204.38	82 207.2	83 208.98	84 209		86 222
6	Cs	Ba	La-Lu	Hf	Та		Re	Os	lr 	Pt	Au	Hg Mercury	TI	Pb	Bi	Po	At	Rn
-	Caesium	Barium .	Lanthanide	Halfnium	Tantalum	Tungsten	Rhenium	Osmium	· · · Iridium	Platinum	Gold	, , ,	Thallium	Lead	Bismuth	Polonium	Astatine	Radon
		88 226 Ra	89-103	104 261	105 262	106 266	107 264 DI	108 277	109 268	110 281	111 280	112 285	113 284	114 289	115 288	116 293	117 292	118 294
7	Fr Francium	Radium	Ac-Lr	Rf Rutherfordium	Db Dubnium	Sg Seaborgium	Bh Bohrium	Hs Hassium	Mt Meitnerium	Ds Darmstadtium	Rg Roentgenium	Cn	Unutrium	FI Flerovium	Unup	Lv Livermorium	Ununseptium	Ununoctium
L	Francium Radium Actinide Rutherfordium Diubnium Seaborgium Bohrium Hassium, Metherium Damistadium Roentgenium Copernicium Ununtrium Fierovium Ununpentium.										Evermonani	The second						
	Alkali Metal	Metal				59 140.91	60 144.24				11111	65 158,93	66 162.50					
	Metal Metalloid			57 138.91 La	58 140.12 Ce	59 140.91 Pr	Nd	61 145 Pm	62 150.36 Sm	63 151.96 Eu	64 157.25 Gd	65 158.93 Tb	66 162.50 Dy	67 164.93 Ho	68 167.26 Er	69 168.93 Tm	70 173.04 Yb	71 174.97 Lu
	☐ Non-metal			Lanthanum	Cerium	Praseodymium	Neodymium	Promethium	Samarium	Europium	Gadolinium	Terbium	Dysprosium	Holmium	Erbium	Thulium	Ytterbium	Lutetium
	☐ Halogen ☐ Noble Gas					,	,						7-1			TO SERVICE.		***************************************
	Lanthanide/A	ctinide	ا	89 227	90 232.04	91 231.04	92 238.03	93 237	94 244	95 243	96 247	97 247	98 251	99 252	100 257	101 258	102 259	103 262
	z mass Symbol	man-mad	de	Ac Ac	Th	Pa	U U	Np	Pu	95 243 Am	Cm	Bk	Cf	Es	Fm	Md	No No	Lr
	Name			Actinium	Thorium	Protactinium	Uranium	Neptunium	Plutonium	Americium	Curium	Berkelium	Californium	Einsteinium	Fermium	Mendelevium	Nobelium	Lawrencium
	Ivallic										<u> </u>	<u> </u>	<u> </u>	1		1		