## The Periodic Table of Elements

0 (8)

က

1.0   Hydrogen   1.0												Π			T			Т				1								
1.0   Hydrogen   1.0	(18)	4.0	He	netium   2	20.2	Ne	neon	9	39.9	Ar	argon 18	83.8	ᄌ	krypto 36	131.3	Xe	xenon	74	[222]	윤	radon 86		ted		_					
1.0   Hydrogen   1.0				(17)	19.0	L	fluorine	6	35.5	ፘ	chlorine 17	79.9	Br	bromine 35	126.9	Н	iodine	22	[210]	At	astatine 85		been repoi		175	Lu	lutetium 71	[257]		
1.0   Hydrogen   1.0				(16)	16.0	0	oxygen	∞	32.1	S	sulfur 16	79.0	Se	selenium 34	127.6	Te	tellurium	70	[506]	8	polonium 84		-116 have	nticated	173	ΥÞ	ytterbium 70	[254]	<u>8</u>	
1.0   Hydrogen   1.0				(15)	14.0	z	nitrogen	7	31.0	۵	phosphorus 15	74.9	As		121.8	Sb	antimony	<u>_</u>	209.0	B.	bismuth 83		mbers 112	rully autne	169	Tm	thulium 69	[256]	ΡW	mendelevium 101
1.0   Hydrogen   1.0				(14)	12.0	U	carbon	9	28.1	Si	silicon 14	72.6	Ge	germanium 32	118.7	Sn	tin E	20	207.2	Ъ	lead 82		atomic nu	DUT NOT 1	167	ᆸ	erbium 68	[253]	Fm	fermium 100
1.0   Hydrogen   1.0				(13)	10.8	മ	boron	2	27.0	ΑI	aluminium 13	2.69	Ga	gallium 31	114.8	I	indium	44	204.4	F	thallium 81		nents with		165	유	holmium 67	[254]	Es	einsteinium 99
1.0   Hydrogen   1.0											(12)	65.4	Zn	zinc 30	112.4	PO	cadmium	48	200.6	Ηg	mercury 80				163	Dy	dysprosium 66	[251]	Ç	californium 98
(2)  Key  24.3  Mg  magnesium  24.3  Mg  magnesium  24.3  Mg  magnesium  12  24.3  Mg  magnesium  12  24.3  Mg  magnesium  12  24.3  Mg  magnesium  13  24.0  14  15  16  17  18  17  18  18  18  18  18  18  18											(11)	63.5	no	copper 29	107.9	Ag	silver	4/	197.0	Αu	gold 79	[272]			159	Tp	terbium 65	[245]	BĶ	berkelium 97
1.0   H   Hydrogen   1.0   Hydrogen											(10)	58.7	Ë	nickel 28	106.4	Pq	palladium	40	195.1	<b>T</b>	platinum 78	[271]	Ds	darmstadtium 110	157	P5	gadolinium 64	[247]	E C	curium 96
1,00   1,00	_										(6)	58.9	ဝ	cobalt	102.9	Rh	rhodium	42	192.2	Ļ	iridium 77	[368]	Mt	meitnenum 109	152	Eu	europium 63	[243]		
1,0   Sep   February atomic mass atomic symbol name   4   A5.0   A7.9   50.0   52.0     24.3   Mg   Mg   A6.1   A5.0   A7.9   50.9   52.0     25		1.0	<b>H</b> hydrogen	· —							(8)	55.8	Fe	iron 26	101.1	Ru	ruthenium	44	190.2	Os	osmium 76	[277]	¥.	nassium 108	150			[242]		
(2) relative atomic atomic symbolishium beryllium actinium actiniu											(2)	54.9	Wn	manganese 25	[86]			43	186.2	Re	rhenium 75	[264]			[147]	Pm	promethium 61	[237]	Α	neptunium 93
9.0   relative atomic					mass	pol		number			(9)	52.0	ڻ	chromium 24	95.9	Wo	molybdenum	74	183.8	>	tungsten 74	[596]	Sg	seaborgium 106	144	PN		238		
9.0  Be beryllium 4 24.3  Mg magnesium 12 (3) (4) 40.1 45.0 47 Ca Sc T Calcium scandium titan 20 21 2 Sr Y Z Sr Y Z Strontium sirron 38 39 46 137.3 138.9 178 Ba La* H barium lanthanum hafn 56 57 7 7 [226] [227] [26 Ra Ac* R radium actinium rutherfa 88 89 10 99				Key	ive atomic	omic sym	name	: (proton) I			(5)	50.9	>	vanadium 23	92.9			4	180.9	Ta	tantalum 73	[292]			Ш	Pr	praseodymium 59	[231]	Ра	protactinium 91
9.0 Be beryllium 4 24.3 Mg magnesium 12 A0.1 Ca calcium 20 87.6 Sr strontium 38 137.3 Ba barium 56 [226] Ra radium 88					relat	atc		atomic			(4)	47.9	ï		+	Zr	zirconium	40	178.5			[261]	Rf	rutherfordium 104	140	Ce	cerium 58	232	Ļ	thorium 90
6.9 9.0  Li Be  Li Be  Li Be  Itithium  3 4  23.0 24.3  Na Mg  sodium  11 12  39.1 40.1  K Ca  potassium  19 20  85.5 87.6  Rb Sr  rubidium  37 38  132.9 137.3  Cs Ba  caesium  55 56  [223] [226]  Fr Ra  francium  87 88  88  * Lanthanide series  * Actinide series											(3)	45.0	Sc	scandium 21	88.9	>	yttrium	25	138.9	La*	lanthanum 57	[227]				es				
6.9 Li Lithium 3 23.0 Na sodium 11 39.1 K potassium 19 85.5 Rb rubidium 37 132.9 Cs caesium 55 [223] Fr francium 87 * Lanth * Actin				(2)	9.0	Be	beryllium	4	24.3	Mg	magnesium 12	40.1	Ca	calcium 20	87.6			ightharpoonup	137.3	Ba	barium 56	[226]	Ra	radium 88		nanide seri	ide series			
				(1)	6.9	<u>"</u>	lithium	~	23.0	Na	sodium 11	39.1	~	potassium 19	85.5	Rb	rubidium	3/	132.9	S	caesium 55	[223]	Fr	rrancium 87		* Lant	* Actin			