

Migma Tshering

Periodic Table of the Elements

IA																	VIIIA
Hindreson.	2 IIA	Atomic Number											17 VIIA	Helium 40028 2			
3 Liihiam 414 23	Be		Electrons per shell \rightarrow 26.982 \leftarrow Atomic Weight State of matter (color of name) Subcategory in the metal-metalloid-nonmetal trend (color of background) GAS LIQUID SOLID UNKNOWN MARKET METALS MARKET METALS											7 N Nitrogen 14.007 23	8 0 6.00 8.599 24	9 F Fluerine 18,998 23	Neon 24
11 Na 2239979928 2431	Mg Magnesium	Alkaline earth metals Actinides Reactive nonmetals Transition metals Post-transition metals Noble gases 3 4 5 6 7 8 9 10 11 12 Sticon Sticon Sutture Sutture Sutture Sutture Sutture Sutture Sutture Sutture Sutture State Sutture Sutture State State											18 Ar 295540 2446				
19 K Potestine 2661	catcium catcium	21 Sc Scandium 44.955908 244-2	22 Ti Titanium 47,847 2-8-10-2	23 V Vanadium 50.5415 2-8112	24 Cr Chromium 51,9561 2-8-10-1	25 Mn Manganese S4.538044 24:5-2	26 Fe Iron 55.845 24%2	27 Co Cobalt 58,523 24:5-2	28 Ni Nicket 58.673 2-5%-2	29 Cu Copper 43.546 2-8-10-1	30 Zn 2452 2452	31 Ga Gattium 59.723 2.6%3	32 Ge Germanium 72430 2-8-18-4	33 As Arsenic 74.922 24:8-5	34 Se Setenium 78.971 24.934	35 Br Dromine 79.904 24/87	36 Kr 83.798 24.54
37 Rb Restant 85.4478 24.041	38 Sr strontium 17.47 24 34 42	39 Y Yitrium 88.90584 24-8-72	40 Zr Zirconium 91224 24:8:10-7	41 Nb Niebium 92,90437 24-8-2-1	42 Mo Molybdenum 95,95 24:18:18-1	43 Tc Technetium (10) 24:8:5-7	44 Ru Ruthenium 101.07 24-19-51	45 Rh Rhadium 102.91 24-10-16-1	46 Pd Pattadium 106.42 2.518-18	47 Ag Silver 107.87 24-8-81	48 Cd Cadmium 102.41 24-18-18-2	49 In Indium 194.82 24-19-19-3	50 Sn 1871 243584	St Sb Antimony 12136 2416-84	52 Te Tetturium 127.40 24-8-84	53 I lodine 126.90 26-8-8-7	54 Xe 10129 24-9-84
55 Cs 102.40545196 24.10-1643	56 Ba Barium	57-71 Lanthanides	72 Hf Hafnium 178.49 24-18-32-56-7	73 Ta Tantalum 180,96788 2-616-32-6-2	74 W Tungsten 183.84 24/8-32-52-2	75 Re Rhenium 184.21 24-19-29-29-2	76 Os Osmium 19.23 24/8-32/8-2	77 I r Iridium 192.22 24-8-32-5-7	78 Pt Platinum 195.08 24-8-25-71	79 Au Gold Histy Jaburai	80 Hg 200.59 2495-20-297	81 TL Thatlium 204.38 2449-32-8-3	82 Pb Lead 2072 24-8-32-8-4	83 Bi Bismuth 208.98 24-8-32-845	84 Po Potonium (209) 24-8-22-84	85 At Astatine (210) 24-26-22-26-7	Rn (220) 2439-329-84
67 Franciscom (220) 2410-32-0641	BB Ra Radium PTAN PLA DOWN	89-103 Actinides	104 Rf Rutherfordium (357) 24-16-32-32-16-2	105 Db Dubnium (340 24-9-29-29-29	106 Sg Seaborgium (2470 2470-2020 2470-2020 2470-2020 2470-2020 2470-2020	107 Bh Bohrium (270) 24-8-29-39-39-3	108 Hssion (277) 24-8-20-26-2	109 Mt Meitnerium (276) 24-9-31-32-35-2	110 DS Dermstactium (280 24-18-32-32-04	m Rg Roentgenium (242) 24-19-20-0-2	112 Con Copernicium (285) 24-3-22-32-32-32	113 Nh Nihonium (240) 24-18-22-28-3	114 Filerovium (2819 24-18-22-23-18-4	115 Mc Moscovium (2400 2439-25-263	116 Lv Livermorium (213) 249-32-32-84	117 TS Tennessine (214) 24-18-20-28-7	118 Og Opanesson (294) 2458-22-32-84
		57 La Lanthanum	58 Ce Cerium Idaliz 2455742	59 Pr Praseodymium	Neodymuum	61 Pm Promethium	Samarium 18536 18536	63 Eu Europium ISTN 2100	64 Gd Gadolinium 15725 1575742	os Tb Terbium	Dy Dysprosium	67 Ho Holmion	68 Er Scolum MI 20 HI 20	67 Tm Nutarn 141211421	Yb Ytterbium	n Lu Lutetium	
	L L	87 Ac Actinium (27) 2+3-32-38+2	90 Th 232.04 2470.2010.02	91 Protactinium 23554 2485/2042	92 Uranium 238.03 34-8-22-21+2	93 Np Np Neptunium (22) 24:8-32-42	94 Putonium (244) 243-32-24-82	95 Am (243) 248-32-2542	96 Cm Curium (247) 2439-22-25-82	97 Bk 8erkelium (247) 2438-32-27-82	98 Cf Catifornium (250) 24:8:32:26-82	57 Es Einsteinium (52) 24/8-22-24-22	100 Fm (357) 248-30342	101 Md 2550 2630-273562	102 Nobelium (259) 2436-2042	103 Lawrenchum (246) 2436-23243	

Source: Science News for Students

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Learning Objectives

Modern Periodic Table

- Arrangement of Elements
- Periods and Groups (Name of some groups)

WHY Modern Periodic Table?

To Study the elements with ease
To Discover new elements

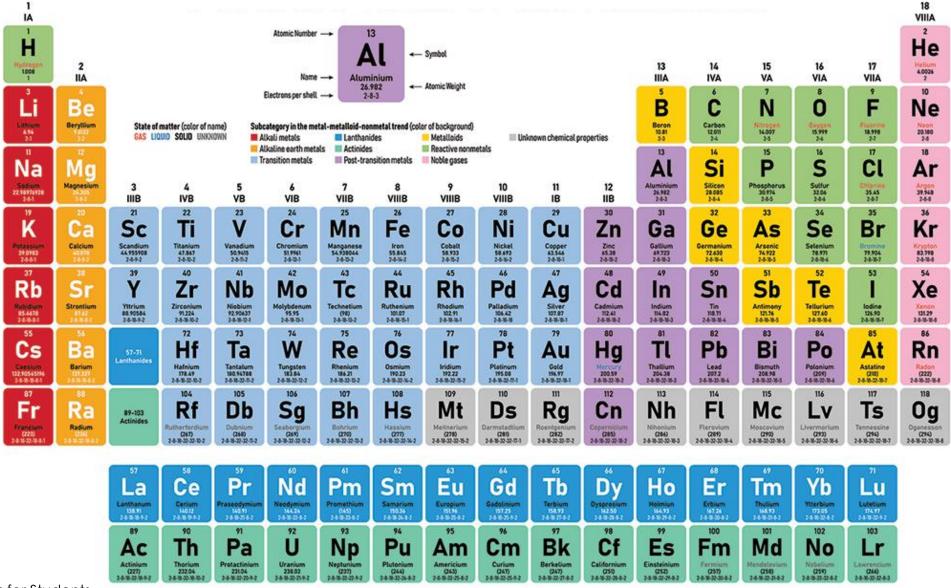
Arrangement of Elements

Increasing order of ATOMIC NUMBER

Periods and Groups

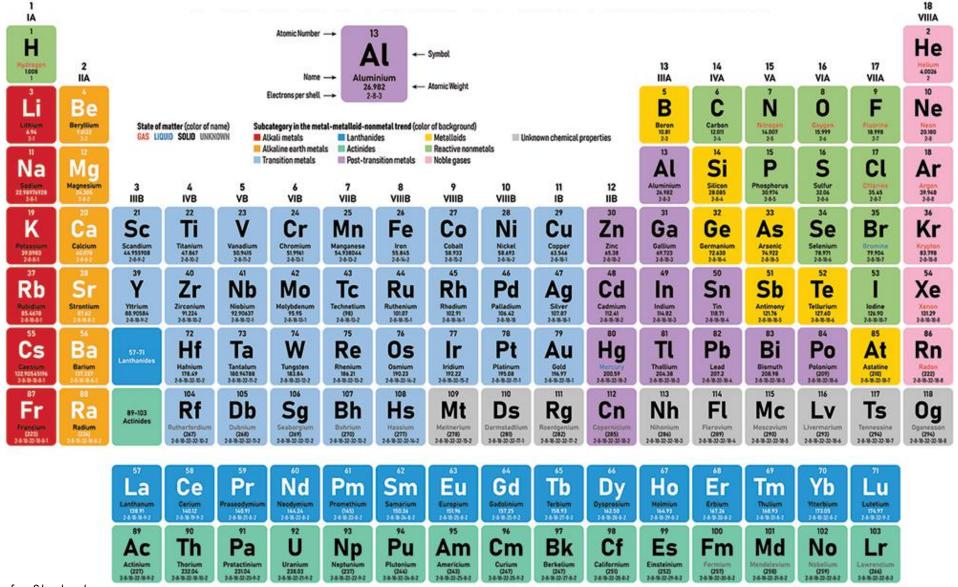
Period: The horizontal arrangement of elements Group: The vertical arrangement of elements

Periods



Source: Science News for Students

Groups



Source: Science News for Students

Name of some groups

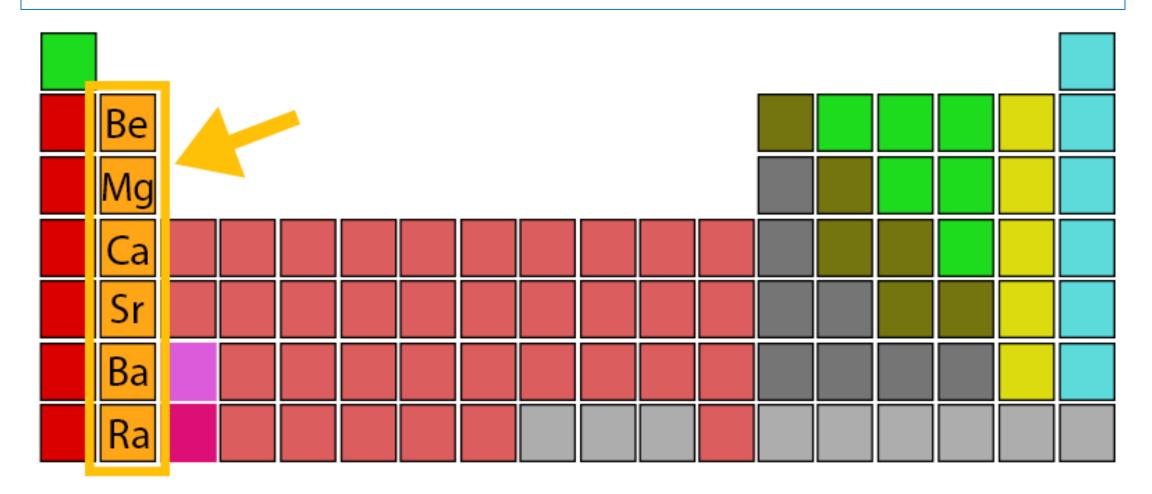
- Group 1: Alkali Metals
- Group 2: Alkali Earth Metals
- Group 17: Halogens
- Group 18: Noble Gases

Group 1: Alkali Metals

н	+	Group 1															He
Li	Be												С	N	ο	F	Ne
Na	Mg													Ρ	s	СІ	Ar
к	Ca	Sc	Ti	v	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Те	I	Xe
Cs	Ba		Hf	Та	w	Re	Os	Ir	Pt	Au	Hg	ТΙ	Pb	Bi	Ро	At	Rn
Fr	Ra			Jur .													

SESSION 1

Group 2: Alkali Earth Metals



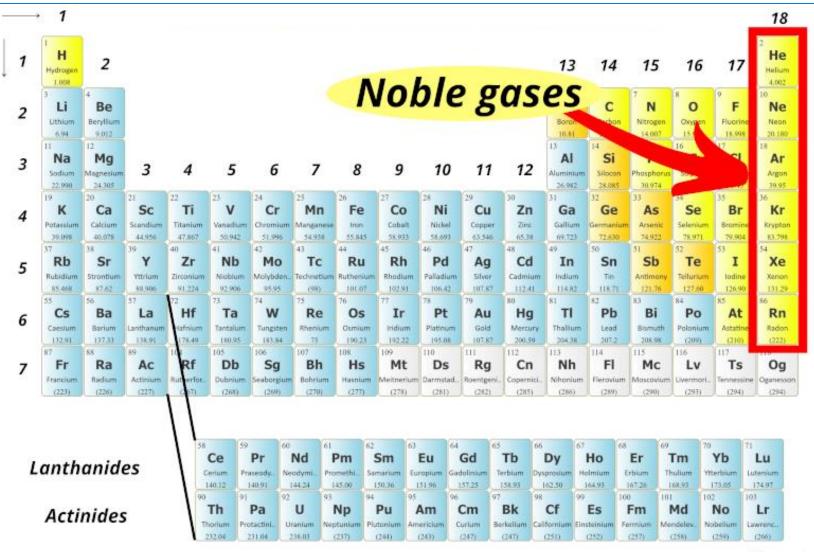


Group 17: Halogens



SESSION 1

Group 18: Noble Gases



Learning Objectives

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