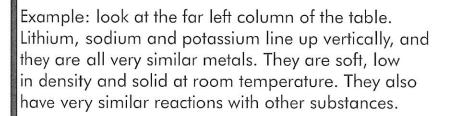
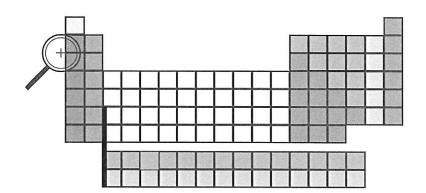
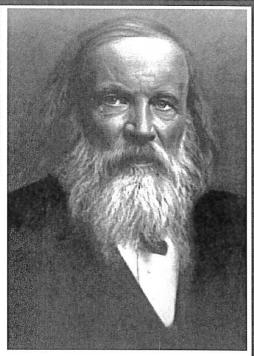
Discovering the Periodic Table

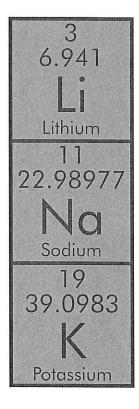
By the late 1800s scientists had discovered and named most of the elements, but they did not understand the elements or their behavior. An important discovery by Russian chemist Dmitri Mendeleev showed that when you arrange the elements in rows and columns you can see the similarities between them. His discovery proved that the elements repeat certain characteristics at regular intervals, or periodically.







Photograph of Dmitri Mendeleev





Periodic Table of the Elements

18	VIIIA 8A	(V)	O)	4.00280	ڻ ح	Neon 28,1797	بر ج ا	Argon 39.948	36 X	Krypton 83.80	X 0	Xenon 131,29	s M	Radon 222.0176	5 5 5	Ununoctium ยนสายพฤ
ı.		4	VIIA	7A	்ட	Fluorine 18.998403	5	Chlorine 35.4527	يّ	Bromine 79.904	53	lodine 126.90447	85 A†	Astatine 209.9871	Uus	Ununseptium unknown
		16	VIA	6A	္ဇဝ	0xygen 15.994	္ဗ	Sulfur 32.066	* N	Selenium 78.96	الم	Tellurium 127.6	⁴ 0	Polonium [208.9824]	juh	nunhexium [298]
日か		15	VA	5A	Z	Nitrogen 14.00674	ت 0	hosphorus 30.973762	AS S	Arsenic 74.92159	S O	Antimony 121,760	ຶ. <u>ຕ</u>	Bismuth 208.98037		nunpentiun U unknawn
		4	IVA	4A	ပ	Carbon 12.011	4. 	Silicon 28,0855	ູ ູ ອ	Germanium 72.64	ູດ ບູ	118.71	ة 5 5	Lead 207.2		nunquadium U [289]
		13	HIA	3A	e M	Boron 10,811	ε •	Aluminum 26.981539		Gallium 6 69.732	_ 	Indium 114.818	Ë F	Thallium 204.3833		Jnuntrium U unknown
					49		42	11B 2B	ِ ک ا	Zinc 66.39	°°O S	Cadmium 712.411	J Le	Mercury 200.59	CP ²	opernicium [277]
							F	田田田	ِ ا ا	Copper 63.546	Ag	Silver 107.8682	e 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Gold 196	± Bg	toentgemum G [272]
X							10	Γ	į	Nickel 58.6934	ِ م م	Palladium 106,42	ِ فِ	Platinum 195.08	05 DS	armstadtium [269]
							6	 8 8	CO	Cobalt 58.9332	E C C	Rhodium 102,9055	7	Iridum 192.22		leitnerium D [268]
							co		" لاي	1ron 55.847	4 Q	tuthenium 101.07	ر 0 0	0smium 190.23	L _s	Hassium N
8							7	VIIB 7B	S u	Manganese 54,938	" က	Technetium R	ان 0 1	Rhenium 136,207	ب 8	Bohrium [264]
2)							9	VIB 6B	ر د	Chromium N	Δ 0 4	Molybdenum To 95,94	7 W	Tungsten 183.85	77:	Seaborgium [266]
							2	VB 5B	23	Vanadium (50,9415	-Z 0	Niobium 92,90638	") "	=		Dubnium Se [262]
							4	IVB 4B	, i-	Titanium 47.88	°N T	Zirconium 91.224	2 Lf-	Hafnium 178.49	4 4	Rutherfodium [261]
1							ო	111B	Sc	Scandlum 44.95591	39 >	Yttrium	7 17-73	See Below	89-103 10 See Below	cc.
L		8	ΗN	2A	B	Seryllium 9.01218	S S	agnesium 24.305	S C C	1910	Sr.	Strontium 87.62	D S	3 ∰‰		Radium 226.0254
γ	11A 11A		C.	Hydrogen 1.0079	4	ERMUR 6.941		Sodium 22,988768	α ω	otassium 39.0083			رن س	Casium 122.59843	00	Francium 223.0197

Lutetium 174.967	103 Lr Lawrencium
Ytterbium	102 Nobelium 259.1609
CP Thulium 168.93421	Mondalevium
68 Erbium 167.26	Fm Fermium 257,0951
Holmium 164,93032	Einsteinium
66 Dysprosium 162.50	Octionium
65 Terbium 158.92534	97 Berkelium 247,0763
Gadolinium 157.25	Curium SAZO703
63 Europium 151.9655	Americium 243.0614
Samarium 150	94 Plutonium 244,0942
Promethium 144,9127	Neptunium 237.0482
60 Neodymium 144.24	92 Uranium
59 Praseodymlum 140.90765	Profactinium
58 Cerium 140.115	Thorium
Lanthanum 138.9055	Actinium
Lanthanide Series	Actinide Series

Properties of Elements

Lanthanides

是些国际企业
Somimetals
Basic Metal
Tansition Metal
Alkaline Earth
Alkali Metal





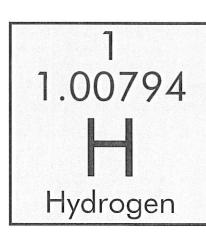
How to Read the Periodic Table

The periodic table is a graphic representation of all the known elements. It is designed to give as much important information as possible in as little space as possible and to show the relationships between the elements.

How to Read the Hydrogen Atom

Atomic Mass
The average mass of
the atoms in the
element

Name
Usually derived from a
Greek or Latin root



Atomic Number
The number of protons
in the nucleus

Symbol
The one or two letter
abbreviation for the
element



Periodic Table of Elements

Use light-colored markers to color in the different sections of the periodic table and then write in the element symbols.

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