

CHEMISTRY



Periodic Table of Elements

1																	18	
H																	Ar	
1.008																	39.948	
2																	19	
He																	K	
4.0026																	39.0983	
3	4															20	36	
Li	Be															Ca	Kr	
6.941	9.0122															40.078	83.80	
5	6	7	8	9	10												37	
B	C	N	O	F	Ne												Rb	
10.811	12.011	14.007	15.999	18.998	20.180												85.468	
11	12															38	54	
Na	Mg															Sr	Xe	
22.990	24.305															87.62	131.29	
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	36
Al	Si	P	S	Cl	Ar	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Kr
26.982	28.086	30.974	32.06	35.453	39.948	39.0983	40.078	44.956	47.88	50.942	51.996	54.938	55.845	58.933	58.693	63.546	65.38	83.80
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	54
Ga	Ge	As	Se	Br	Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	Xe
69.723	72.63	74.922	78.96	79.904	83.80	85.468	87.62	88.906	91.224	92.906	95.94	98.906	101.07	102.91	106.42	107.87	112.41	131.29
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	72
In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Hf
75.57	118.71	121.76	127.6	126.905	131.29	132.91	137.33	138.91	140.12	140.91	144.24	144.91	150.36	151.96	157.25	158.93	162.50	178.49
67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	86
Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Xe
132.91	137.33	174.967	178.49	180.948	183.84	186.207	190.23	192.222	195.084	196.967	200.59	204.38	207.2	208.98	209	210	222	83.80
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	106
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	Uu	Xe
223	226	227	232.04	231.04	238.03	237.05	244.06	243.06	247.07	247.07	251.08	252.08	257.10	258.10	259.10	262.11	262	83.80
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	106
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	Uu	Xe
223	226	227	232.04	231.04	238.03	237.05	244.06	243.06	247.07	247.07	251.08	252.08	257.10	258.10	259.10	262.11	262	83.80

1	ATOMIC NUMBER
H	SYMBOL
1.008	ATOMIC WEIGHT

Elemental forms:

- Monatomic:** Noble gases: helium, neon, argon, krypton, xenon, and radon; nonreactive
- Diatomic:** Gases: fluorine, chlorine, hydrogen, oxygen, and nitrogen; Liquid: bromine; Solid: iodine
- Molecular solids:** Sulfur
- Covalent solids:** Carbon (diamond, graphite)
- Metals:** Most common type of element; high coordination numbers; very dense

Types of compounds:

Large variety due to ionic, covalent, and metallic bonding options

- Ionic:** Electron exchange
- Covalent:** Shared electrons
 - Polar covalent: Unequal sharing
- Ion complex:** Central ion + solvent
- Transition metal compounds:**
 - Coordination compounds: Non-bonding ligands
 - Organometallics: Metal-C bond
- Complex minerals:** Metal oxides and silicates

Periodicity: The chemical properties of an element depend on valence electrons

- Family of elements:** Column in periodic table
- The addition of d-orbitals produces an expanded octet

Periodic Trends

- Chemistry determined by the behavior of valence electrons
- Atoms or ions get larger as you go down the column; electron shells are added
- Cation and anions (same charge) decrease in size as the atomic number (Z) increases

Ionization energies: Noble gases are the most stable; alkali metals are the easiest to ionize; electron screening lessens Z -effect on orbital energy

Atomic and ionic radii: Not real properties; derive from structural data; divide bond into radii using a consistent scheme

- Ionic radius:** Depends on charge, counter ion, and coordination (crystal type)
- Atomic radius:** Based on diatomic gas data or metallic solid structural data

Development of the Periodic Table

- Missing elements were predicted using periodicity
- Columns 1: Alkali metals
- Columns 2: Alkaline earth metals
- First transition series: Titanium-Copper
- Column 17: Halogens: fluorine, chlorine, bromine, iodine, and astatine
- Column 18: Rare gases: helium, neon, argon, krypton, xenon, and radon
- Artificial: $Z = 90$ or above; radioactive
- Lanthanides: f-subshell elements; starts with $Z = 58$



Practical Application

- The colors of fireworks depend on the elements in the explosive

d-subshell
5 orbitals

Orbitals

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Atomic Structure

- Atomic number (Z):** The number of protons in the nucleus; for a neutral atom, Z = number of electrons; for an anion of charge $-q$, $Z = q$ electrons; for a cation of charge $+q$, $Z = q$ electrons
- Mass number (A):** $A = Z + N$, where N = the number of neutrons in the nucleus
- Isotopes:** Atoms with the same Z , different A ; an element can have one or more isotopes; any sample contains a number of isotopes; in practical work, use the average mass number or atomic weight (weighted average of natural isotopes for a given element)

First Ionization Potential vs. Z



Atomic Radius vs. Z



Atomic Quantum Numbers & Orbitals

- n : principle**
 - angular momentum (orbital shape)
 - quantum number (orbital direction)
 - For each n , the possible l values are $0, 1, \dots, n-1$
 - For each l , the possible m_l values are $-l, \dots, 0, \dots, +l$
 - m_s has two possible values: $+\frac{1}{2}$ and $-\frac{1}{2}$ (spin up, spin down)
 - Each value of n denotes a "shell" in the atomic structure; each l denotes a subshell
- s-orbital:** $l = 0$, 1 type
- d-orbital:** $l = 2$, 5 types
- p-orbital:** $l = 1$, 3 types
- f-orbital:** $l = 3$, 7 types

Many-Electron Atoms

Orbitals and quantum numbers derived for the hydrogen atom are used to describe all many-electron atoms and ions; a more rigorous treatment determines exact energy levels and orbital properties; the main result is that subshells have different energies; the filling of levels is guided by the Aufbau principle:

Aufbau Order for Filling Subshells



n	l	m_l	m_s	element
1	0	0	$+\frac{1}{2}$	H
1	0	0	$-\frac{1}{2}$	He
2	0	0	$+\frac{1}{2}$	Li
2	0	0	$-\frac{1}{2}$	Be
2	1	-1	$+\frac{1}{2}$	B
2	1	0	$+\frac{1}{2}$	C
2	1	1	$+\frac{1}{2}$	N
2	1	-1	$-\frac{1}{2}$	O
2	1	0	$-\frac{1}{2}$	F
2	1	1	$-\frac{1}{2}$	Ne

- Electron configuration:** Atomic orbital occupancy for an atom
- Pauli exclusion principle:** Each electron has a unique set of quantum numbers; an orbital may hold up to two electrons: one with spin up, $m_s = +\frac{1}{2}$, and one with spin down, $m_s = -\frac{1}{2}$
- Hund's rule:** Electrons fill p, d, and f subshells in a manner to maximize the number of unpaired electrons (half-filled orbitals); spin is maximized
- Ionization potential (IP):** Energy required to remove electron from an atom or ion
 - First IP: Removal of first valence electron
- Electronegativity:** Tendency of an atom to attract electrons in a chemical bond; 0-4 scale, 0 for rare gas

College Chemistry Study Guide

Morris Hein, Susan Arena



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