

PERIODIC TABLE

Group Classifications ⁴		VIII		VIII		VIII	
Atomic Weight (⁰ indicates longest-lived isotope)		55.847		26		Atomic Number	
Acidity/Basicity ² & Crystal Structure ³		Al/B1 bcc		2,3		Oxidation States	
Melting Point ⁵ , °C		1538		Fe		Symbol ¹	
Boiling Point ⁵ , °C		2861		Iron		Name	
Density ³ (300K), g/cm ³ for gases: g/L, 273.15 K, 1 atm		7.86		[Ar]3d ⁶ 4s ²		Electronic Configuration	
Electronegativity		1.83					

1.00794 Al/B1 hcp 259.84 -252.87 0.0899 2.20 1s ¹ Hydrogen	6.941 Al/B1 hcp 180.5 1432 0.534 0.98 [He] 2s ¹ Lithium	9.0121831 Al/B1 hcp 1287 2471 1.8477 1.57 [He] 2s ² Beryllium	22.989768 Al/B1 hcp 83 bcc 97.72 883 0.97 0.93 [Ne] 3s ¹ Sodium	24.3050 Al/B1 hcp 83 bcc 1090 1.74 1.31 [Ne] 3s ² Magnesium	44.955908 Al/B1 hcp 1541 2830 2.999 1.36 [Ar] 3d ⁴ 4s ² Scandium	47.867 Al/B1 hcp 1688 3287 4.5 1.54 [Ar] 3d ⁴ 4s ² Titanium	50.9415 Al/B1 bcc 1910 3407 5.96 1.66 [Ar] 3d ⁴ 4s ² Vanadium	51.9961 Al/B1 bcc 1907 3671 7.20 1.66 [Ar] 3d ⁴ 4s ² Chromium	54.938044 Al/B1 bcc 1246 2061 7.47 1.55 [Ar] 3d ⁵ 4s ¹ Manganese	55.847 Al/B1 bcc 1538 2861 7.86 1.83 [Ar] 3d ⁶ 4s ² Iron	58.933194 Al/B1 fcc 1495 2927 8.92 1.88 [Ar] 3d ⁶ 4s ² Cobalt	58.933194 Al/B1 fcc 1495 2927 8.92 1.88 [Ar] 3d ⁶ 4s ² Nickel	63.546 Al/B1 fcc 1084.82 2562 8.94 1.90 [Ar] 3d ⁸ 4s ¹ Copper	65.39 Al/B1 hcp 4185.53 907 7.14 1.65 [Ar] 3d ⁹ 4s ¹ Zinc	69.723 Al/B1 rhc 29.76 3265 2.33 1.90 [Ne] 3s ² Aluminum	72.61 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Silicon	14.00674 Al/B1 fcc 2.±4 -195.79 1.25046 3.04 [He] 2s ² Boron	15.9994 Al/B1 fcc 218.79 -182.95 1.429 3.44 [He] 2s ² Carbon	14.00674 Al/B1 fcc 2.±4 -195.79 1.25046 3.04 [He] 2s ² Nitrogen	15.9994 Al/B1 fcc 218.79 -182.95 1.429 3.44 [He] 2s ² Oxygen	18.998403163 Al/B1 fcc -218.29 -188.12 1.69 3.98 [He] 2s ² Fluorine	20.1797 Al/B1 fcc -248.59 -246.08 0.9002 — [He] 2s ² Neon	26.9815385 Al/B1 fcc 1414 3265 2.33 1.90 [Ne] 3s ² Aluminum	28.0855 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Silicon	30.973761998 Al/B1 fcc 3.±4.5 44.15 277 1.82 2.19 [Ne] 3s ² Phosphorus	32.066 Al/B1 fcc 115.21 44.15 2.07 2.58 [Ne] 3s ² Sulfur	32.066 Al/B1 fcc 115.21 44.15 2.07 2.58 [Ne] 3s ² Sulfur	35.4527 Al/B1 fcc -101.5 -188.12 3.214 3.16 [Ne] 3s ² Chlorine	35.4527 Al/B1 fcc -101.5 -188.12 3.214 3.16 [Ne] 3s ² Chlorine	39.948 Al/B1 fcc -188.35 -185.85 1.784 3.16 [Ne] 3s ² Argon	39.948 Al/B1 fcc -188.35 -185.85 1.784 3.16 [Ne] 3s ² Argon	78.9718 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Gallium	72.61 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Silicon	74.921595 Al/B1 fcc 3.±3.5 61.49 ^o 5.727 ^o 2.18 [Ar] 3d ¹⁰ 4s ¹ Arsenic	78.971 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Sulfur	78.971 Al/B1 fcc 308.25 1414 3265 2.33 1.90 [Ne] 3s ² Sulfur	79.904 Al/B1 fcc -101.5 -188.12 3.214 3.16 [Ne] 3s ² Chlorine	79.904 Al/B1 fcc -101.5 -188.12 3.214 3.16 [Ne] 3s ² Chlorine	83.80 Al/B1 fcc -157.36 -153.22 3.74 — [Ar] 3d ¹⁰ 4s ¹ Krypton	83.80 Al/B1 fcc -157.36 -153.22 3.74 — [Ar] 3d ¹⁰ 4s ¹ Krypton	85.4678 Al/B1 fcc 39.31 688 1.532 0.82 [Kr] 5s ¹ Rubidium	87.62 Al/B1 fcc 777 1382 2.6 0.95 [Kr] 5s ² Strontium	88.90584 Al/B1 hcp 1526 4469 4.69 1.22 [Kr] 4d ⁵ 5s ² Yttrium	91.224 Al/B1 hcp 40 449 6.49 1.33 [Kr] 4d ⁵ 5s ² Zirconium	92.90637 Al/B1 fcc 2477 4744 8.57 1.6 [Kr] 4d ⁵ 5s ² Niobium	95.95 Al/B1 fcc 2623 4639 10.2 2.16 [Kr] 4d ⁵ 5s ² Molybdenum	95.95 Al/B1 fcc 2623 4639 10.2 2.16 [Kr] 4d ⁵ 5s ² Molybdenum	(97.9072) Al/B1 fcc 2157 4265 11.5 1.9 [Kr] 4d ⁵ 5s ² Technetium	101.07 Al/B1 fcc 2334 4150 12.3 2.2 [Kr] 4d ⁵ 5s ² Ruthenium	102.90550 Al/B1 fcc 2,3,4 1964 3695 12.4 2.28 [Kr] 4d ⁶ 5s ¹ Rhodium	106.42 Al/B1 fcc 2,4 1544.4 2963 10.5 1.93 [Kr] 4d ⁸ Palladium	107.8682 Al/B1 fcc 112.414 321.07 767 8.42 1.69 [Kr] 4d ⁹ 5s ¹ Silver	112.414 Al/B1 hcp 48 2 112.414 321.07 767 8.42 1.69 [Kr] 4d ⁹ 5s ¹ Cadmium	114.818 Al/B1 fcc 3 156.60 2072 7.30 1.78 [Kr] 4d ¹⁰ 5s ¹ Indium	118.710 Al/B1 fcc 2,4 211.97 2602 7.28 1.96 [Kr] 4d ¹⁰ 5s ² Tin	121.760 Al/B1 fcc 3,5 158.7 1587 6.684 ^o 2.05 [Kr] 4d ¹⁰ 5s ² Antimony	127.60 Al/B1 fcc -2,6 221 988 6.25 2.1 [Kr] 4d ¹⁰ 5s ² Tellurium	127.60 Al/B1 fcc -2,6 221 988 6.25 2.1 [Kr] 4d ¹⁰ 5s ² Tellurium	126.90447 Al/B1 fcc -1.5,7 113.7 184.4 4.93 2.66 [Kr] 4d ¹⁰ 5s ² Iodine	126.90447 Al/B1 fcc -1.5,7 113.7 184.4 4.93 2.66 [Kr] 4d ¹⁰ 5s ² Iodine	131.29 Al/B1 fcc -111.75 -108.04 3.74 — [Kr] 4d ¹⁰ 5s ² Xenon	131.29 Al/B1 fcc -111.75 -108.04 3.74 — [Kr] 4d ¹⁰ 5s ² Xenon	132.90545196 Al/B1 fcc 1 28.44 671 1.879 0.79 [Xe] 6s ¹ Cesium	137.327 Al/B1 fcc 2 727 1897 3.594 0.89 [Xe] 6s ² Barium	57-71 lanthanoids	178.49 Al/B1 hcp 4 4603 13.31 1.3 [Xe] 4f ¹⁴ 5d ¹ 6s ² Hafnium	180.9479 Al/B1 hcp 5 3017 16.6 1.5 [Xe] 4f ¹⁴ 5d ² 6s ² Tantalum	183.84 Al/B1 fcc 3,5 3422 5555 19.35 2.36 [Xe] 4f ¹⁴ 5d ³ 6s ² Tungsten	186.207 Al/B1 fcc -1,2,4,6,7 3185 5096 22.61 2.2 [Xe] 4f ¹⁴ 5d ⁴ 6s ² Rhenium	190.23 Al/B1 fcc 2,3,4,6,8 3022 5012 22.61 2.2 [Xe] 4f ¹⁴ 5d ⁴ 6s ² Osmium	192.227 Al/B1 fcc 2,3,4,6 3022 5012 22.61 2.2 [Xe] 4f ¹⁴ 5d ⁴ 6s ² Iridium	195.08 Al/B1 fcc 2,4 1788.4 3825 21.45 2.28 [Xe] 4f ¹⁴ 5d ⁶ 6s ² Platinum	196.966569 Al/B1 fcc 1,3 1084.18 2856 19.31 2.54 [Xe] 4f ¹⁴ 5d ⁸ 6s ¹ Gold	200.59 Al/B1 fcc 1,2 388.3 356.73 13.546 2.00 [Xe] 4f ¹⁴ 5d ⁹ 6s ¹ Mercury	200.59 Al/B1 fcc 1,2 388.3 356.73 13.546 2.00 [Xe] 4f ¹⁴ 5d ⁹ 6s ¹ Mercury	204.3833 Al/B1 fcc 1,3 1749 11.85 2.04 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹ Thallium	207.2 Al/B1 fcc 2,4 3274.6 1564 9.78 2.02 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Lead	208.98037 Al/B1 fcc 3,5 271.40 1564 9.78 2.02 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Bismuth	(208.9824) Al/B1 fcc 2,4 254 962 2.0 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Polonium	(208.9824) Al/B1 fcc 2,4 254 962 2.0 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Polonium	(209.9871) Al/B1 fcc 2,4 302 919 2.2 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Astatine	(209.9871) Al/B1 fcc 2,4 302 919 2.2 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Astatine	(222.0176) Al/B1 fcc — — — — [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Radon	(222.0176) Al/B1 fcc — — — — [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Radon	138.9055 Al/B1 fcc 3 920 3455 6.146 1.10 [Xe] 5d ¹ 6s ² Lanthanum	140.115 Al/B1 fcc 3,4 799 331 3510 6.773 1.12 [Xe] 4f ¹ 5d ¹ 6s ² Cerium	140.90766 Al/B1 fcc 3,4 931 3510 6.773 1.12 [Xe] 4f ¹ 5d ¹ 6s ² Praseodymium	144.24 Al/B1 fcc 3 1016 3006 7.00 1.14 [Xe] 4f ² 6s ² Neodymium	(144.9127) Al/B1 fcc 3 1042 3000 7.264 1.13 [Xe] 4f ² 6s ² Promethium	150.36 Al/B1 fcc 2,3 1072 1790 7.536 1.17 [Xe] 4f ³ 6s ² Samarium	151.965 Al/B1 fcc 2,3 822 1314 1596 1.2 [Xe] 4f ³ 6s ² Europium	157.25 Al/B1 fcc 3 1472 3264 8.230 1.22 [Xe] 4f ⁴ 6s ² Gadolinium	158.92534 Al/B1 hcp 3,4 1359 3221 8.230 1.22 [Xe] 4f ⁴ 6s ² Terbium	162.50 Al/B1 hcp 3,4 1569 2561 8.551 1.24 [Xe] 4f ⁵ 6s ² Dysprosium	164.93 Al/B1 hcp 3 1894 2894 9.321 1.24 [Xe] 4f ⁵ 6s ² Ho	167.26 Al/B1 hcp 3 1529 2862 9.066 1.24 [Xe] 4f ⁶ 6s ² Er	168.93 Al/B1 hcp 2,3 1946 1946 9.321 1.24 [Xe] 4f ⁶ 6s ² Tm	173.05 Al/B1 fcc 2,3 824 1663 3393 9.84 1.27 [Xe] 4f ⁷ 6s ² Yb	174.97 Al/B1 hcp 3 1663 3393 9.84 1.27 [Xe] 4f ⁷ 6s ² Lu	227.0278 Al/B1 fcc 3 1051 3198 10.07 1.1 [Rn] 5d ¹ 7s ² Actinium	232.0377 Al/B1 fcc 3 1750 4788 11.72 1.3 [Rn] 5d ¹ 7s ² Thorium	231.0359 Al/B1 fcc 4 1572 4131 15.37 1.3 [Rn] 5f ¹ 6d ¹ 7s ² Protactinium	238.0289 Al/B1 fcc 3,4,5,6 1135 19.05±0.02 1.36 [Rn] 5f ² 6d ¹ 7s ² Uranium	237.0482 Al/B1 hcp 3,4,5,6 644 20.45 1.36 [Rn] 5f ² 6d ¹ 7s ² Np	(243.0642) Al/B1 fcc 3,4,5,6 1176 3228 19.816 1.3 [Rn] 5f ³ 6d ¹ 7s ² Pu	(243.0614) Al/B1 hcp 3,4,5,6 1345 2607 13.67 1.3 [Rn] 5f ³ 6d ¹ 7s ² Am	(247.0703) Al/B1 fcc 3 1050 3478 13.3 1.3 [Rn] 5f ⁴ 6d ¹ 7s ² Cm	(247.0703) Al/B1 fcc 3 1050 3478 13.3 1.3 [Rn] 5f ⁴ 6d ¹ 7s ² Cm	(247.0703) Al/B1 fcc 3 1050 3478 13.3 1.3 [Rn] 5f ⁴ 6d ¹ 7s ² Bk	(251.08) Al/B1 fcc 3,4 900 14.78 1.3 [Rn] 5f ⁵ 6d ¹ 7s ² Californium	(251.08) Al/B1 fcc 3,4 900 14.78 1.3 [Rn] 5f ⁵ 6d ¹ 7s ² Californium	(252.08) Al/B1 fcc 3 860 13 1.3 [Rn] 5f ⁵ 6d ¹ 7s ² Einsteinium	(257.10) Al/B1 fcc 3 1527 827 1.3 [Rn] 5f ⁶ 6d ¹ 7s ² Fermium	(257.10) Al/B1 fcc 3 1527 827 1.3 [Rn] 5f ⁶ 6d ¹ 7s ² Fermium	(258.10) Al/B1 fcc 2,3 827 1.3 [Rn] 5f ⁶ 6d ¹ 7s ² Mendelevium	(258.10) Al/B1 fcc 2,3 827 1.3 [Rn] 5f ⁶ 6d ¹ 7s ² Mendelevium	(261.12) Al/B1 fcc 3 1627 — — [Rn] 5f ⁶ 6d ¹ 7s ² Lawrencium	(261.12) Al/B1 fcc 3 1627 — — [Rn] 5f ⁶ 6d ¹ 7s ² Lawrencium
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Element Coding		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71	
Solid		La		Ce		Pr		Nd		Pm		Sm		Eu		Gd		Tb		Dy		Ho		Er		Tm		Yb		Lu	
Gas		Lanthanum		Cerium		Praseodymium		Neodymium		Promethium		Samarium		Europium		Gadolinium		Terbium		Dysprosium		Holmium		Erbium		Thulium		Ytterbium		Lutetium	
Liquid		Lanthanum		Cerium		Praseodymium		Neodymium		Promethium		Samarium		Europium		Gadolinium		Terbium		Dysprosium		Holmium		Erbium		Thulium		Ytterbium		Lutetium	
Synthetically prepared		Actinium		Thorium		Protactinium		Uranium		Neptunium		Plutonium		Americium		Curium		Berkelium		Californium		Einsteinium		Fermium		Mendelevium		Lawrencium			

IMPORTANT FORMULAS AND EQUATIONS

DENSITY

$$d = \frac{m}{V} \quad d = \text{density} \quad m = \text{mass} \quad V = \text{volume}$$

MOLE CALCULATION

$$\text{number of moles} = \frac{\text{given mass (g)}}{\text{gram-formula mass}}$$

PERCENT ERROR

$$\% \text{ error} = \frac{\text{measured value} - \text{accepted value}}{\text{accepted value}} \times 100$$

PERCENT COMPOSITION

$$\% \text{ composition by mass} = \frac{\text{mass of part}}{\text{mass of whole}} \times 100$$

CONCENTRATION

$$\text{parts per million} = \frac{\text{mass of solute}}{\text{mass of solution}} \times 1\,000\,000$$

$$\text{molarity} = \frac{\text{moles of solute}}{\text{liters of solution}}$$

COMBINED GAS LAW

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

P = pressure
V = volume
T = temperature (K)

TITRATION

$$M_A V_A = M_B V_B$$

M_A = molarity of H⁺
 V_A = volume of acid
 M_B = molarity of OH⁻
 V_B = volume of base

HEAT

$$q = mC\Delta T$$

$$q = mH_f$$

$$q = mH_v$$

*The units of mass
must be the same
 H_f = heat of fusion
 H_v = heat of vaporization

TEMPERATURE

$$K = ^\circ\text{C} + 273$$

K = Kelvin
°C = degrees Celsius

RADIOACTIVE DECAY

$$\text{fraction remaining} = \left(\frac{1}{2}\right)^{\frac{t}{T}}$$

t = total time elapsed
 T = half-life

$$\text{number of half-life periods} = \frac{t}{T}$$

ACPHS ACADEMIC PROGRAMS



BT = BIOMEDICAL TECHNOLOGY

CL = CLINICAL LABORATORY SCIENCES

MI = MICROBIOLOGY

PS = PHARMACEUTICAL SCIENCES

PU = PUBLIC HEALTH

PH = PHARMACY

PM = PRE-MED

PA = PRE-PA

PL = PRE-LAW