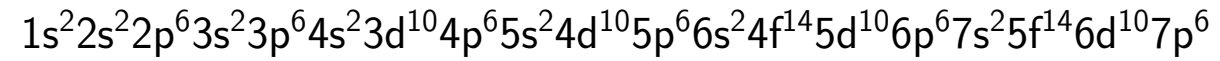


# Periodic Table of Elements



	1 IA																										18 VIIIA	
1	1 2.20 <b>H<sub>2</sub></b> Hydrogen 1.01																		2 <b>He</b> Helium 4.00									
2	3 0.98 <b>Li</b> Lithium 6.94		4 1.57 <b>Be</b> Beryllium 9.01														13 IIIA 5 2.04 <b>B</b> Boron 10.81		14 IVA 6 2.55 <b>C</b> Carbon 12.01	15 VA 7 3.14 <b>N<sub>2</sub></b> Nitrogen 14.01	16 VIA 8 3.44 <b>O<sub>2</sub></b> Oxygen 16.00	17 VIIA 9 3.98 <b>F<sub>2</sub></b> Fluorine 19.00	10 <b>Ne</b> Neon 20.18					
3	11 0.93 <b>Na</b> Sodium 22.99		12 1.31 <b>Mg</b> Magnesium 24.31																				13 1.61 <b>Al</b> Aluminium 26.98	14 1.90 <b>Si</b> Silicon 28.09	15 2.19 <b>P</b> Phosphorus 30.97	16 2.38 <b>S</b> Sulphur 32.10	17 3.16 <b>Cl<sub>2</sub></b> Chlorine 35.45	18 <b>Ar</b> Argon 39.95
4	19 0.82 <b>K</b> Potassium 39.10		20 1.00 <b>Ca</b> Calcium 40.08		21 1.36 <b>Sc</b> Scandium 44.96	22 1.54 <b>Ti</b> Titanium 47.87	23 1.63 <b>V</b> Vanadium 50.94	24 1.66 <b>Cr★</b> Chromium 52.00	25 1.55 <b>Mn</b> Manganese 54.94	26 1.83 <b>Fe</b> Iron 55.85	27 1.88 <b>Co</b> Cobalt 58.93	28 1.91 <b>Ni</b> Nickel 58.69	29 1.90 <b>Cu★</b> Copper 63.55	30 1.65 <b>Zn</b> Zinc <sup>(2+)</sup> 65.38	31 1.81 <b>Ga</b> Gallium 69.72	32 2.01 <b>Ge</b> Germanium 72.63	33 2.18 <b>As</b> Arsenic 74.92	34 2.55 <b>Se</b> Selenium 78.97	35 2.96 <b>Br<sub>2</sub></b> Bromine 79.90	36 3.00 <b>Kr</b> Krypton 83.80								
5	37 0.82 <b>Rb</b> Rubidium 85.47		38 0.95 <b>Sr</b> Strontium 87.62		39 1.22 <b>Y</b> Yttrium 88.91	40 1.33 <b>Zr</b> Zirconium 91.22	41 1.6 <b>Nb★</b> Niobium 92.91	42 2.16 <b>Mo★</b> Molybdenum 95.95	43 1.9 <b>Tc</b> Technetium (98)	44 2.2 <b>Ru★</b> Ruthenium 101.07	45 2.28 <b>Rh★</b> Rhodium 102.91	46 2.20 <b>Pd★★</b> Palladium 106.42	47 1.93 <b>Ag</b> Silver <sup>(1+)</sup> 107.87	48 1.69 <b>Cd</b> Cadmium <sup>(2+)</sup> 112.41	49 1.78 <b>In</b> Indium 114.82	50 1.96 <b>Sn★</b> Tin 118.71	51 2.05 <b>Sb</b> Antimony 121.76	52 2.1 <b>Te</b> Tellurium 127.60	53 2.86 <b>I<sub>2</sub></b> Iodine 126.90	54 2.60 <b>Xe</b> Xenon 131.29								
6	55 0.79 <b>Cs</b> Caesium 132.91		56 0.89 <b>Ba</b> Barium 137.33		57-71 <b>La-Lu</b> Lanthanide	72 1.3 <b>Hf</b> Hafnium 178.49	73 1.5 <b>Ta</b> Tantalum 180.95	74 2.36 <b>W</b> Tungsten 183.84	75 1.9 <b>Re</b> Rhenium 186.21	76 2.2 <b>Os</b> Osmium 190.23	77 2.20 <b>Ir</b> Iridium 192.22	78 2.28 <b>Pt</b> Platinum 195.08	79 2.54 <b>Au★</b> Gold 196.97	80 2.00 <b>Hg</b> Mercury 200.59	81 1.62 <b>Tl</b> Thallium 204.38	82 1.87 <b>Pb</b> Lead 207.2	83 2.02 <b>Bi</b> Bismuth 208.98	84 2.0 <b>Po</b> Polonium (209)	85 2.2 <b>At</b> Astatine (210)	86 2.2 <b>Rn</b> Radon (222)								
7	87 0.7 <b>Fr</b> Francium (223)		88 0.9 <b>Ra</b> Radium (226)		89-103 <b>Ac-Lr</b> Actinide	104 <b>Rf</b> Rutherfordium (267)	105 <b>Db</b> Dubnium (268)	106 <b>Sg</b> Seaborgium (269)	107 <b>Bh</b> Bohrium (270)	108 <b>Hs</b> Hassium (277)	109 <b>Mt</b> Meitnerium (278)	110 <b>Ds</b> Darmstadtium (281)	111 <b>Rg</b> Roentgenium (282)	112 <b>Cn</b> Copernicium (285)	113 <b>Nh</b> Nihonium (286)	114 <b>Fl</b> Flerovium (289)	115 <b>Mc</b> Moscovium (290)	116 <b>Lv</b> Livermorium (293)	117 <b>Ts</b> Tennessine (294)	118 <b>Og</b> Ogannesson (294)								

- Alkali Metal
- Alkaline-Earth
- Metal
- Metalloid
- Non-metal
- Halogen
- Noble Gas
- Lanthanide/Actinide
- ★ Aufbau Exception
- Synthetic
- Liquid or Gas @ Room Temp.

EN, IE, EA, &  $Z_{eff}$  increase ←

Radius & Metallic increase ←↗↘

571.1LaLanthanum138.91	581.12CeCerium140.12	591.13PrPraseodymium140.91	601.14NdNeodymium144.24	611.13PmPromethium(145)	621.17SmSamarium150.36	631.2EuEuropium151.96	641.2GdGadolinium157.25	651.1TbTerbium158.93	661.22DyDysprosium162.50	671.23HoHolmium164.93	681.24ErErbium167.26	691.25TmThulium168.93	701.1YbYtterbium173.05	711.27LuLutetium174.97
891.1AcActinium(227)	901.3ThThorium232.04	911.5PaProtactinium231.04	921.38UUranium238.03	931.36NpNeptunium(237)	941.28PuPlutonium(244)	951.13AmAmericium(243)	961.28CmCurium(247)	971.3BkBerkelium(247)	981.3CfCalifornium(251)	991.3EsEinsteinium(252)	1001.3FmFermium(257)	1011.3MdMendelevium(258)	1021.3NoNobelium(259)	1031.3LrLawrencium(266)