

# The SEVEN PERIODS (rows) on the PERIODIC TABLE

1	1 IA 1A	1 <b>H</b> Hydrogen 1.008	2 IIA 2A											13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	18 VIIIA 8A	2 <b>He</b> Helium 4.003																
2	3	<b>Li</b> Lithium 6.941	4	<b>Be</b> Beryllium 9.012											5 <b>B</b> Boron 10.811	6 <b>C</b> Carbon 12.011	7 <b>N</b> Nitrogen 14.007	8 <b>O</b> Oxygen 15.999	9 <b>F</b> Fluorine 18.998	10 <b>Ne</b> Neon 20.180																
3	11	<b>Na</b> Sodium 22.990	12	<b>Mg</b> Magnesium 24.305	3 IIIB 3B	4 IVB 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8 VIII 8	9 VIII 8	10 VIII 8	11 IB 1B	12 IIB 2B	13 <b>Al</b> Aluminum 26.982	14 <b>Si</b> Silicon 28.086	15 <b>P</b> Phosphorus 30.974	16 <b>S</b> Sulfur 32.066	17 <b>Cl</b> Chlorine 35.453	18 <b>Ar</b> Argon 39.948																
4	19	<b>K</b> Potassium 39.098	20	<b>Ca</b> Calcium 40.078	21	<b>Sc</b> Scandium 44.956	22	<b>Ti</b> Titanium 47.867	23	<b>V</b> Vanadium 50.942	24	<b>Cr</b> Chromium 51.996	25	<b>Mn</b> Manganese 54.938	26	<b>Fe</b> Iron 55.845	27	<b>Co</b> Cobalt 58.933	28	<b>Ni</b> Nickel 58.693	29	<b>Cu</b> Copper 63.546	30	<b>Zn</b> Zinc 65.38	31	<b>Ga</b> Gallium 69.723	32	<b>Ge</b> Germanium 72.631	33	<b>As</b> Arsenic 74.922	34	<b>Se</b> Selenium 78.971	35	<b>Br</b> Bromine 79.904	36	<b>Kr</b> Krypton 83.798
5	37	<b>Rb</b> Rubidium 85.468	38	<b>Sr</b> Strontium 87.62	39	<b>Y</b> Yttrium 88.906	40	<b>Zr</b> Zirconium 91.224	41	<b>Nb</b> Niobium 92.906	42	<b>Mo</b> Molybdenum 95.95	43	<b>Tc</b> Technetium 98.907	44	<b>Ru</b> Ruthenium 101.07	45	<b>Rh</b> Rhodium 102.906	46	<b>Pd</b> Palladium 106.42	47	<b>Ag</b> Silver 107.868	48	<b>Cd</b> Cadmium 112.414	49	<b>In</b> Indium 114.818	50	<b>Sn</b> Tin 118.711	51	<b>Sb</b> Antimony 121.760	52	<b>Te</b> Tellurium 127.6	53	<b>I</b> Iodine 126.904	54	<b>Xe</b> Xenon 131.294
6	55	<b>Cs</b> Cesium 132.905	56	<b>Ba</b> Barium 137.328	57-71		72	<b>Hf</b> Hafnium 178.49	73	<b>Ta</b> Tantalum 180.948	74	<b>W</b> Tungsten 183.84	75	<b>Re</b> Rhenium 186.207	76	<b>Os</b> Osmium 190.23	77	<b>Ir</b> Iridium 192.217	78	<b>Pt</b> Platinum 195.085	79	<b>Au</b> Gold 196.967	80	<b>Hg</b> Mercury 200.592	81	<b>Tl</b> Thallium 204.383	82	<b>Pb</b> Lead 207.2	83	<b>Bi</b> Bismuth 208.980	84	<b>Po</b> Polonium [208.982]	85	<b>At</b> Astatine 209.987	86	<b>Rn</b> Radon 222.018
7	87	<b>Fr</b> Francium 223.020	88	<b>Ra</b> Radium 226.025	89-103		104	<b>Rf</b> Rutherfordium [261]	105	<b>Db</b> Dubnium [262]	106	<b>Sg</b> Seaborgium [266]	107	<b>Bh</b> Bohrium [264]	108	<b>Hs</b> Hassium [269]	109	<b>Mt</b> Meitnerium [278]	110	<b>Ds</b> Darmstadtium [281]	111	<b>Rg</b> Roentgenium [280]	112	<b>Cn</b> Copernicium [285]	113	<b>Nh</b> Nihonium [286]	114	<b>Fl</b> Flerovium [289]	115	<b>Mc</b> Moscovium [289]	116	<b>Lv</b> Livermorium [293]	117	<b>Ts</b> Tennessine [294]	118	<b>Og</b> Oganesson [294]

6	Lanthanide Series	57	<b>La</b> Lanthanum 138.905	58	<b>Ce</b> Cerium 140.116	59	<b>Pr</b> Praseodymium 140.908	60	<b>Nd</b> Neodymium 144.243	61	<b>Pm</b> Promethium 144.913	62	<b>Sm</b> Samarium 150.36	63	<b>Eu</b> Europium 151.964	64	<b>Gd</b> Gadolinium 157.25	65	<b>Tb</b> Terbium 158.925	66	<b>Dy</b> Dysprosium 162.500	67	<b>Ho</b> Holmium 164.930	68	<b>Er</b> Erbium 167.259	69	<b>Tm</b> Thulium 168.934	70	<b>Yb</b> Ytterbium 173.055	71	<b>Lu</b> Lutetium 174.967
7	Actinide Series	89	<b>Ac</b> Actinium 227.028	90	<b>Th</b> Thorium 232.038	91	<b>Pa</b> Protactinium 231.036	92	<b>U</b> Uranium 238.029	93	<b>Np</b> Neptunium 237.048	94	<b>Pu</b> Plutonium 244.064	95	<b>Am</b> Americium 243.061	96	<b>Cm</b> Curium 247.070	97	<b>Bk</b> Berkelium 247.070	98	<b>Cf</b> Californium 251.080	99	<b>Es</b> Einsteinium [254]	100	<b>Fm</b> Fermium 257.095	101	<b>Md</b> Mendelevium 258.1	102	<b>No</b> Nobelium 259.101	103	<b>Lr</b> Lawrencium [262]