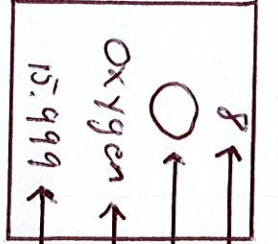


# FAMILIES



Periodic Table of the Elements

1 H Hydrogen 1.008	2 He Helium 4.003											11 B Boron 10.811	12 C Carbon 12.011	13 N Nitrogen 14.007	14 O Oxygen 15.999	15 F Fluorine 18.998	16 Ne Neon 20.180
3 Li Lithium 6.941	4 Be Beryllium 9.012											13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 84.798
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.711	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.294
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [208.982]	85 At Astatine [208.987]	86 Rn Radon [222.018]
87 Fr Francium [223.020]	88 Ra Radium [226.025]	89-103 Actinide Series	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Uut Ununtrium [unknown]	114 Fl Flerovium [289]	115 Uup Ununpentium [unknown]	116 Lv Livermorium [293]	117 Uus Ununseptium [unknown]	118 Uuo Ununoctium [unknown]
57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.243	61 Pm Promethium [144.913]	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967			
89 Ac Actinium [227.028]	90 Th Thorium [232.038]	91 Pa Protactinium [231.036]	92 U Uranium [238.029]	93 Np Neptunium [237.048]	94 Pu Plutonium [244.064]	95 Am Americium [243.061]	96 Cm Curium [247.070]	97 Bk Berkelium [247.070]	98 Cf Californium [251.080]	99 Es Einsteinium [254]	100 Fm Fermium [257.095]	101 Md Mendelevium [258.1]	102 No Nobelium [259.101]	103 Lr Lawrencium [262]			

Columns, also called rows, also called

= # of and = # of and



## Periodic Table Review

### Family Issues

Most reactive metals on the periodic table

- Family: \_\_\_\_\_
- Group #: \_\_\_\_\_

Most reactive non-metals on the periodic table

- Family: \_\_\_\_\_
- Group #: \_\_\_\_\_

Elements that don't react

- Family: \_\_\_\_\_
- Group #: \_\_\_\_\_

Elements from the non-metals Group \_\_\_\_ really like to bond with elements from the metals Group \_\_\_\_\_.

The exception to the Valence Electron pattern is the \_\_\_\_\_ family.

### Periodic Patterns

The state of most elements on the periodic table is \_\_\_\_\_ at room temperature.

\_\_\_\_\_ are on the left side of the periodic table, and \_\_\_\_\_ are on the right. These are separated by the seven (ish) \_\_\_\_\_.

\_\_\_\_\_ and \_\_\_\_\_ are two other names for the metalloids.

As I go across a row, Valence Electron number...

Increases / Decreases / Stays the same

As I go down a group, reactivity...

Increases / Decreases / Stays the same

As I go across a row from left to right, \_\_\_\_\_ always increases.

As I increase the \_\_\_\_\_ number, the orbital number...

Increases / Decreases / Stays the same