1/4/2016/ 4:06 PM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 **H** hydrogen 1.01																	2 **He** helium 4.00
3 **Li** lithium 6.94	4 **Be** beryllium 9.01											5 **B** boron 10.81	6 **C** carbon 12.01	7 **N** nitrogen 14.01	8 **O** oxygen 16.00	9 **F** fluorine 19.00	10 **Ne** neon 20.18
11 **Na** sodium 23.00	12 **Mg** magnesium 24.31											13 **Al** aluminum 26.98	14 **Si** silicon 28.09	15 **P** phosphorus 30.97	16 **S** sulfur 32.06	17 **Cl** chlorine 35.45	18 **Ar** argon 39.95
19 **K** potassium 39.10	20 **Ca** calcium 40.08	21 **Sc** scandium 44.96	22 **Ti** titanium 47.90	23 **V** vanadium 50.94	24 **Cr** chromium 52.00	25 **Mn** manganese 54.94	26 **Fe** iron 55.85	27 **Co** cobalt 58.93	28 **Ni** nickel 58.71	29 **Cu** copper 63.55	30 **Zn** zinc 65.38	31 **Ga** gallium 69.72	32 **Ge** germanium 72.59	33 **As** arsenic 74.92	34 **Se** selenium 78.96	35 **Br** bromine 79.90	36 **Kr** krypton 83.80
37 **Rb** rubidium 85.47	38 **Sr** strontium 87.62	39 **Y** yttrium 88.91	40 **Zr** zirconium 91.22	41 **Nb** niobium 92.91	42 **Mo** molybdenum 95.94	43 **Tc** technetium (99)	44 **Ru** ruthenium 101.07	45 **Rh** rhodium 102.91	46 **Pd** palladium 106.4	47 **Ag** silver 107.87	48 **Cd** cadmium 112.40	49 **In** indium 114.82	50 **Sn** tin 118.69	51 **Sb** antimony 121.75	52 **Te** tellurium 127.60	53 **I** iodine 126.90	54 **Xe** xenon 131.30
55 **Cs** cesium 132.91	56 **Ba** barium 137.34	57 **La** lanthanum 138.91	72 **Hf** hafnium 178.49	73 **Ta** tantalum 180.95	74 **W** tungsten 183.85	75 **Re** rhenium 186.2	76 **Os** osmium 190.2	77 **Ir** iridium 192.22	78 **Pt** platinum 195.09	79 **Au** gold 196.97	80 **Hg** mercury 200.59	81 **Tl** thallium 204.37	82 **Pb** lead 207.2	83 **Bi** bismuth 208.98	84 **Po** polonium (210)	85 **At** astatine (210)	86 **Rn** radon (222)
87 **Fr** francium (223)	88 **Ra** radium 226.03	89 **Ac** actinium (227)	104 **Rf** ruther-fordium (261)	105 **Db** dubnium (262)	106 **Sg** seaborg-ium (263)	107 **Bh** bohrium (262)	108 **Hn** hahnium (265)	109 **Mt** meitnerium (266)	110 **Ds** darm-stadtium (269)	111 **Rg** roentgenium (272)	112 **Cn** coper-necium (277)	113 **Uut** ununtrium (284)	114 **Uuq** unun-quadium (289)	115 **Uup** unun-pentium (288)	116 **Uuh** ununhexium (291)	117 **Uus** ununseptium (293)	118 **Uuo** ununoctium (294)

58 **Ce** cerium 140.12	59 **Pr** praseo-dymium 140.91	60 **Nd** neo-dymium 144.24	61 **Pm** pro-methium (145)	62 **Sm** samarium 150.4	63 **Eu** europium 151.96	64 **Gd** gadolinium 157.25	65 **Tb** terbium 158.93	66 **Dy** dysprosium 162.50	67 **Ho** holmium 164.93	68 **Er** erbium 167.26	69 **Tm** thulium 168.93	70 **Yb** ytterbium 173.04	71 **Lu** lutetium 175.97

90 **Th** thorium 232.04	91 **Pa** protac-tinium 231.04	92 **U** uranium 238.03	93 **Np** nep-tunium 237.05	94 **Pu** plutonium (242)	95 **Am** americium (243)	96 **Cm** curium (247)	97 **Bk** berkelium (247)	98 **Cf** californium (251)	99 **Es** ein-steinium (252)	100 **Fm** fermium (257)	101 **Md** mende-levium (258)	102 **No** nobelium (255)	103 **Lr** law-rencium (257)

Atomic Masses to .01