

Instructor: _____ Daniel BARIL _____ Lab section: _____ 13 – 14 _____

week	Date	Experiment/Activity Title	Report
1	Jan. 23	Check in / Laboratory Safety / Green Chemistry	
2	Jan. 30	Significant Figures	
3	Feb. 6	Excel workshop – Naming compounds	
4	Feb. 13	Stoichiometry	☺
5	Feb. 20	Solution Stoichiometry	☺
6	Feb. 27	Molar Volume of a Gas	Formal
7	March 6	Chemical Reactions	☺
8	March 13	Problem Solving	
	March 20	Study Break – no lab	
9	March 27	Identification of Anions and Cations	☺
10	April 3	Atomic Spectra	Formal
11	April 10	Problem solving	
12	April 17	Volumetric Analysis of Ascorbic Acid (Vitamin C)	☺
13	April 24	Chemical Bonding and mol. shape: VSEPR Theory / Polymer	☺
14	May 1 st	Melting Points	☺
15	May 8	Calorimetry / Check out	☺
16	May 15	No lab	

☺ : Experiments that do not require a full lab report. Students only have to submit a complete data sheet with sample calculations and answer to the questions. Additional submissions may be required by your instructor.

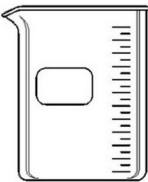
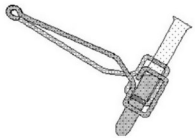

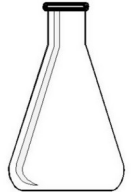

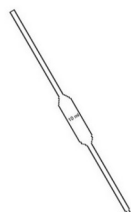

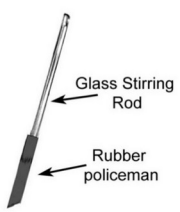
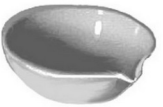


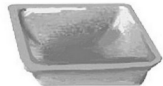

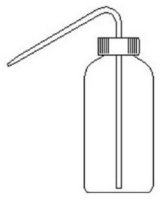

Formal: Formal lab report (Intro, calculations, conclusion, answer to questions, see your lab instructor)

Noncompliance to any of the following safety regulation will result in expulsion from the lab:

- Safety glasses and lab coat must be worn in the laboratory at all times.
- No eating or drinking (not even water from a bottle) is permitted at any time in the laboratory.
- Keep your personal belonging (bag, coat, etc.) out of the working area.
- Report any accident, even minor, to your instructor.

Drawer number : _____ locker combination : _____

Common laboratory equipment

				
Beaker	Test tube holder	Test tube	"Erlenmeyer" flask	Graduated cylinder
				
10.00 mL pipette	Medicine dropper	Stirring glass	Evaporating dish	Glass funnel
				
Watch glass	Plastic weighing dish	Scoopula	Wash bottle	Thermometer

Periodic Table of the Elements

1A																		8A	
1	2																	3	4
H 1.008	He 4.003																		
3 Li 6.941	4 Be 9.012																	5 B 10.81	6 C 12.01
11 Na 22.99	12 Mg 24.31	13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.07	17 Cl 35.45	18 Ar 39.95											7 N 14.01	8 O 16.00
19 K 39.10	20 Ca 40.08	21 Sc 44.96	22 Ti 47.87	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.69	29 Cu 63.55	30 Zn 65.39	31 Ga 69.72	32 Ge 72.61	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80	9 F 19.00	10 Ne 20.18
37 Rb 85.47	38 Sr 87.62	39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.94	43 Tc 98.00	44 Ru 101.1	45 Rh 102.9	46 Pd 106.4	47 Ag 107.9	48 Cd 112.4	49 In 114.8	50 Sn 118.7	51 Sb 121.8	52 Te 127.6	53 I 126.9	54 Xe 131.3	6 O 16.00	7 N 14.01
55 Cs 132.9	56 Ba 137.3	57 La* 138.9	72 Hf 178.5	73 Ta 181.0	74 W 183.8	75 Re 186.2	76 Os 190.2	77 Ir 192.2	78 Pt 195.1	79 Au 197.0	80 Hg 200.6	81 Tl 204.4	82 Pb 207.2	83 Bi 209.0	84 Po (209)	85 At (210)	86 Rn (222)	5 P 30.97	6 C 12.01
87 Fr (223)	88 Ra (226)	89 Ac ^a (227)	104 Rf (267)	105 Db (268)	106 Sg (269)	107 Bh (270)	108 Hs (269)	109 Mt (278)	110 Ds (281)	111 Rg (282)	112 Cn (285)	113 Nh (286)	114 Fl (289)	115 Mc (289)	116 Lv (293)	117 Ts (294)	118 Og (294)	4 S 32.07	5 P 30.97

*Lanthanides

^aActinides

58 Ce 140	59 Pr 141	60 Nd 144	61 Pm 145	62 Sm 150	63 Eu 152	64 Gd 157	65 Tb 159	66 Dy 163	67 Ho 165	68 Er 167	69 Tm 169	70 Yb 173	71 Lu 175
90 Th 232	91 Pa 231	92 U 238	93 Np 237.1	94 Pu 244	95 Am 243	96 Cm 247	97 Bk 247	98 Cf 251	99 Es 252	100 Fm 257	101 Md 258	102 No 259	103 Lr 260