

Instructor: _____ Daniel BARIL _____ Lab section: _____ 09 – 10 _____

week	Date	Experiment/Activity Title	Report
1	Aug 17	No lab	
2	Aug 24	Check in / Laboratory Safety / Significant Figures / Green Chemistry	
3	Aug 31	Naming compounds / Pipetting exercise	
4	Sep 07	Excel workshop (<u>lab on Tuesday</u>)	
5	Sep 14	Stoichiometry	😊
6	Sep 21	Problem solving	
7	Sep 28	Solution Stoichiometry	😊
8	Oct 05	Molar Volume of a Gas (<u>Lab on Wednesday</u>)	Formal
9	Oct 12	Thanksgiving: No laboratory	
10	Oct 19	Identification of Anions and Cations	😊
11	Oct 26	Atomic Spectra	Formal
12	Nov 02	Volumetric Analysis of Ascorbic Acid (Vitamin C)	😊
13	Nov 09	Chemical Reactions	😊
14	Nov 16	Chemical Bonding and mol. shape: VSEPR Theory / Polymer	😊
15	Nov 23	Melting Points	😊
16	Nov 30	Calorimetry / Check out	😊
17	Dec 07	No lab	

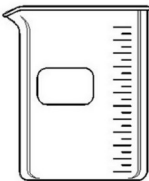
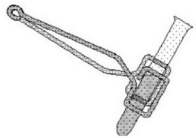
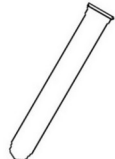
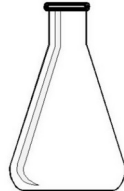
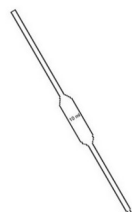
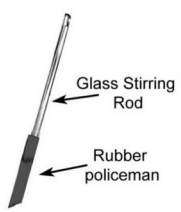
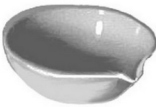
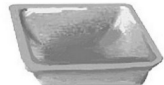
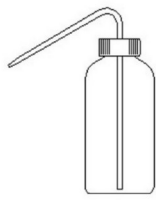
Formal: Formal lab report (Intro, calculations, conclusion, answer to questions, see your lab instructor)

😊 : 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.

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.

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

*Lanthanides

^aActinides

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