

F2026 Chemistry SN1 Academic Calendar Sec. 09 - 10 (D. Baril)

	week	Laboratory	Monday	Tuesday	Wednesday	Thursday	Friday	Sat.	Sun.
August	1	no lab	17	18	19	20 Classes start	21	22	23
	2	Check-in / Safety / Sig. Fig / Green chem.	24	25	26	27	28	29	30
September	3	Naming compounds / Pipetting exercise	31	Sept 1	2	3	4	5	6
	4	Excel workshop	7 Labour Day No classes	8 Monday schedule	9	10	11	12	13
	5	Stoichiometry	14	15	16	17	18 Last day withdraw	19	20
	6	Problem solving	21	22 TEST 1 15%	23	24 Friday schedule	25 Pedagogical Day No classes	26	27
October	7	Solution Stoichiometry	28	29	30	October 1	2	3	4
	8	Molar volume of a gas (formal lab report)	5 Election, no classes	6	7 Monday schedule	8	9	10	11
	9	no lab	12 Thanksgiving Day No classes	13	14	15	16	17	18
	10	Identification of Anions and Cations	19	20 TEST 2 15%	21	22	23	24	25
	11	Atomic spectra (formal lab report)	26	27	28	29	30	31	Nov 1
November	12	Volumetric analysis of ascorbic acid (titration)	2 last day to drop the course without penalty	3	4	5	6	7	8
	13	Chemical Reactions	9	10	11	12	13 Study Day No classes	14	15
	14	Chemical Bonding: VSEPR	16	17	18	19	20	21	22
	15	Melting points	23	24 TEST 3 15%	25	26	27	28	29
December	16	Calorimetry / check out	30	December 1	2	3	4	5	6
	17	No lab	7	8	9 Last day of classes	10	11	12	13



Chemistry / Physic / Comp. Sci. exam week



Math / Biology / Geology exam week

 Test $\geq 15\%$ or 1/3 of the semester

SN1 Data sheet

1	1 H 1.008	2											13	14	15	16	17	18 2 He 4.003
2	3 Li 6.94	4 Be 9.012											5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18
3	11 Na 22.99	12 Mg 24.31	3	4	5	6	7	8	9	10	11	12	13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.07	17 Cl 35.45	18 Ar 39.95
4	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 65.38	31 Ga 69.72	32 Ge 72.63	33 As 74.92	34 Se 78.97	35 Br 79.90	36 Kr 83.80
5	37 Rb 85.47	38 Sr 87.62	39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.95	43 Tc (97)	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	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)
7	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)

 : metalloid

*Lanthanides

58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61 Pm (145)	62 Sm 150.4	63 Eu 152.0	64 Gd 157.3	65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
90 Th 232.0	91 Pa 231.0	92 U 238.0	93 Np (237)	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 (266)

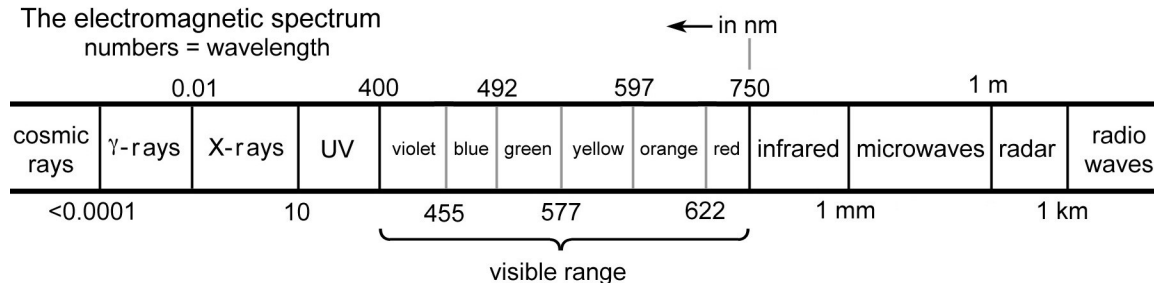
Constants (* exact value since 2019)

Bohr's Energy	$B = 2.178 \times 10^{-18} \text{ J}$
Speed of light in vacuum	$c^* = 2.99792458 \times 10^8 \text{ m} \cdot \text{s}^{-1}$
Planck's constant	$h^* = 6.62607015 \times 10^{-34} \text{ J} \cdot \text{s}$
Mass of an electron	$m_e = 9.109 \times 10^{-31} \text{ kg}$
Mass of a neutron	$m_n = 1.675 \times 10^{-27} \text{ kg}$
Mass of a proton	$m_p = 1.673 \times 10^{-27} \text{ kg}$
Avogadro's number	$N_A^* = 6.02214076 \times 10^{23} \text{ mol}^{-1}$
Rydberg's constant	$R_H = 1.0974 \times 10^7 \text{ m}^{-1}$
Gas constant	$R = \begin{cases} 8.314 \text{ J} \cdot \text{K}^{-1} \cdot \text{mol}^{-1} \\ 8.314 \text{ L} \cdot \text{kPa} \cdot \text{K}^{-1} \cdot \text{mol}^{-1} \\ 0.08206 \text{ L} \cdot \text{atm} \cdot \text{K}^{-1} \cdot \text{mol}^{-1} \end{cases}$

Conversions

$0^\circ \text{C} = 273.15 \text{ K}$
$1 \text{ cal} = 4.184 \text{ J}$
$\text{Pa} = \text{N} \cdot \text{m}^{-2}$
$\text{J} = \text{kg} \cdot \text{m}^2 \cdot \text{s}^{-2}$
$101.3 \text{ J} = 1 \text{ L} \cdot \text{atm}$
gas STP = 22.414 L/mol
$\text{Hz} = \text{s}^{-1}$
$1 \text{ atm} = \begin{cases} 101.32 \text{ kPa} \\ 1.0132 \text{ bar} \\ 760.0 \text{ mm of Hg or torr} \end{cases}$

The electromagnetic spectrum
numbers = wavelength



More information at the back