

# CHEM 1210 (Rowley)

## Exam 1 Equations (Chapters 1-2) Spring 2026

### Formulas

---

$$T_K = T_{\circ C} + 273.15$$

$$d = \frac{m}{V}$$

$$A.W. = \sum_{i=isotope} mass_i \frac{\%abundance_i}{100\%}$$

### Constants

---

$$R = 8.314 \frac{J}{mol K}$$

$$R = 0.08206 \frac{L \text{ atm}}{mol K}$$

		Periodic Table of the Elements																			
		Group IVA								Group VA								Group VIA		Group VIIA	
		Group IIIA			Group IVA			Group VA		Group VIA		Group VIIA		Group 8A		Group 8A		Group 8A			
1	H	2	Be	Boron	C	Carbon	N	O	P	S	Cl	F	Neon	He	Ne	Ar	Ar	Kr	Xe		
1	Hydrogen 1.008	2	Beryllium 9.012	3	Magnesium 24.305	4	Scandium 44.956	5	Vanadium 50.942	6	Cr	7	VIIIB	8	VIII	9	10	11	12	13	14
3	Lithium 6.941	11	Sodium 22.990	12	Mg	3	Titanium 47.867	21	Ti	22	Fe	25	Mn	26	Co	27	Ni	Zn	Al	B	
19	K	20	Ca	21	Sc	40.078	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	Ge	Si	
37	Rb	38	Sr	39	Y	85.468	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	Pd	Al	
55	Cs	56	Ba	57	La	132.905	58	Hf	59	Ta	60	Ds	61	Pr	62	Sm	63	Eu	Gd	He	
87	Fr	88	Ra	89	Ac	223.020	90	Db	91	Bh	92	Rg	93	Cm	94	Pu	95	Am	96	Tb	He
58	Ce	59	Pr	60	Nd	140.116	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	Er
90	Th	91	Pa	92	U	232.038	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Fm	Tm
Lanthanide Series		Actinide Series		Lanthanide Series		Actinide Series		Lanthanide Series		Actinide Series		Lanthanide Series		Actinide Series		Lanthanide Series		Actinide Series			
Series		Series		Series		Series		Series		Series		Series		Series		Series		Series			
Cerium		Protactinium		Promethium		Neodymium		Praseodymium		Samarium		Europium		Gadolinium		Terbium		Dysprosium		Ho	
Thorium		Protactinium		Plutonium		Curium		Neptunium		Uranium		Neptunium		Curium		Berkelium		Erbium		Tb	
232.038		231.036		244.064		237.048		238.029		238.029		243.061		247.070		247.070		251.080		164.930	
[294]		[294]		[294]		[294]		[294]		[294]		[294]		[294]		[294]		[294]		[294]	