



**Supplement to ch. 10 "homework"**  
*Chemistry, 7<sup>th</sup> ed., Zumdahl & Zumdahl, section 7.11*

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revised 1/04/2009

- n. O..... \_\_\_\_\_
- o. P..... \_\_\_\_\_
- p. S..... \_\_\_\_\_
- q. Ti..... \_\_\_\_\_
- r. Xe..... \_\_\_\_\_

### Abbreviated Periodic Table of the Elements

1 1A H 1.01	2 2A Be 9.01																	18 8A He 4.00
3 Li 6.94	4 B 10.81											5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18	
11 Na 22.99	12 Mg 24.31	3 3B	4 4B	5 5B	6 6B	7 7B	8 8B	9 8B	10 8B	11 1B	12 2B	13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.07	17 Cl 35.45	18 Ar 39.95	
19 K 39.10	20 Ca 40.08	21 Sc 44.96	22 Ti 47.88	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 72.59	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80	
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)	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	
55 Cs 132.9	56 Ba 137.3	71 Lu 175.0	72 Hf 178.5	73 Ta 180.9	74 W 183.9	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)	
87 Fr (223)	88 Ra 226	103 Lr (262)	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Uun	111 Uuu	112 Uub	113	114	115				
		57 La 138.9	58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61	62	63	64	65	66	67	68	69	70			
		89 Ac (227)	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	98	99	100	101	102			

*\*Although we don't have enough knowledge to determine valence electron configurations for non-representative elements now, we will be able to make reasonable predictions for these elements in CHM103. CHM103 is really about one topic: the electron.*