				<u>20-July-2009</u>
U: Fail to put in the	Units & Prope	rly Round, Fa	ail to show ALL	math work
ints PRIN	NT NAME O	N LINE		
BOX OR LOOSE 2	20 PTS	Test l	End time	
	Test S	Start time		
		(1 pt) Test	Elapsed time	
nts each = 20 pts	Fill in the I	Blanks:		
	Formulae		Solubility in	Water
arbonate				_
ride				_
hosphate				_
ulfide				_
lfate				_
ach = 20 pts) An	swer the foll	owing:		
Reaction and label	the Reactants			
eaction: $2 H_2 + O_2$	→ 2 H ₂ O The	"2" in front o	f the H ₂ O is call	ed a:
g Forces" of a reacti	on			
Electrolyte"				
acts from the reaction	n of a strong ac	id and strong	base?	
	ints PRIMBOX OR LOOSE 2 Ints each = 20 pts Parbonate Parbonate	ints PRINT NAME Of BOX OR LOOSE 20 PTS Ints each = 20 pts) Fill in the Formulae Garbonate Garbonate Gulfide Hosphate Julide J	ints PRINT NAME ON LINE	BOX OR LOOSE 20 PTS Test End time Test Start time (1 pt) Test Elapsed time ints each = 20 pts) Fill in the Blanks: Formulae Solubility in Farbonate ride hosphate fulfide ach = 20 pts) Answer the following: Reaction and label the Reactants seaction: $2 H_2 + O_2 \rightarrow 2 H_2O$ The "2" in front of the H_2O is call g Forces" of a reaction

C. Write the equations for the following reactions and will they go to completion: (4 * 10 Points each = 40 pts)
Magnesium and Hydrochloric Acid
Sodium Bromide reacting with Magnesium Nitrate
Hydrochloric Acid reacting with Potassium Hydroxide
Silver Nitrate reacting with Lithium Bromide

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E. (2 * 5 Points each = 10 pts) Calculate % Composi	tion of each element in
Sodium Bicarbonate	
$Chloroform-CHCl_3$	
F. (2 * 5 Points each = 10 pts) Calculate the Empirica	al & Molecular formulae for:
1. $C = 79.23\%$, $H = 5.70\%$, Mw is between $100 - 110$ g/mole	
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2. C = 85.6%, H = 14.4%, Mw is between 82 - 86 g/mole

(1 pt) DID YOU CHECK FOR SIGNIFICANT DIGITS	Yes	No
(1 pt) DID YOU CHECK FOR PROPER UNITS	Yes	No
(1 pt) How do you rate this test from 1 to 10		

1 = Very Easy, can do it with my eyes closed, 10= Very Very Difficult, could not do any of the problems

1	1 H 1.008	2A							X				3A	4A	5A	6A	7A	2 He 4.003
2	3 Li 6.941	4 Be 9.012											5 B 10.81	6 C 12.01	7 N 14.01	8 0 16.00	9 F 19.00	10 Ne 20.18
3	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 CI 35.45	18 Ar 39.95
4	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
5	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
6	55 Cs 132.9	56 Ba 137.3	57 La* 138.9	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)
7	87 Fr (223)	88 Ra 226	89 Ac** (227)	104 Rf	105 Db (262)	106 Sg (263)	107 Bh (264)	108 Hs (265)	109 Mt (268)	110 Ds (271)	111 Rg (272)	112 Uub	113 Uut	114 Uuq	115 Uup			

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