

NO CREDIT IF YOU: Fail to put in the Units & Properly Round, Fail to show ALL math work

(1 pt) PRINT YOUR NAME on the line: _____

Your start time on this test _____

Your finish time on this test: _____

Max Grade: 100 points

Time it took you to do this test: _____

A. Fill in the Blanks (28 pts total, 2 points ea)

1-3. What is the molecular weight of Potassium Bicarbonate?

4. What is a Coefficient?

5. Give an example of Coefficient?

6. Circle the incorrect Symbol: Co O₂ H₂ N C He

7. Why is that symbol incorrect?

8. Give an example of Reactants in a reaction?

9-10 Name 2 Physical States of matter.

11. Can the following Chemical Reaction occur? $2 \text{Mg} + 2 \text{HCl} \rightarrow \text{Mg}_2 + \text{H}_2 \uparrow$

12. And Why for #11 above?

13. Describe the term “Driving Force”

14. What is the symbol “↑” used for?

B. Show the Complete and Balanced Equation for the following (30 pts total, 10 points ea)
And - Will the reaction go to Completion?

B-1 Magnesium and Hydrochloric Acid

B-2 Sodium Sulfate and Lead (IV)Nitrate

B-3 What kind of reactions form water as a product? Give a Complete Reaction Example

Fill in the Blanks (40 pts total, 2 points ea)

<u>Name</u>	<u>Formulae</u>	<u>Soluble or Insoluble in Water</u>
1. Barium Chloride	_____	_____
2. Potassium Hydroxide	_____	_____
3. Lead (IV) Nitrate	_____	_____
4. Magnesium Hydroxide	_____	_____
5. Barium Nitrate	_____	_____
6. Potassium Sulfide	_____	_____
7. Zinc Carbonate	_____	_____
8. Lead (II) Chloride	_____	_____
9. Strontium Iodide	_____	_____
10. Ammonium Phosphate	_____	_____

DID YOU CHECK FOR SIGNIFICANT DIGITS _____ Yes _____ No

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																2 He 4.003
2	3 Li 6.941	4 Be 9.012										3A 5 B 10.81	4A 6 C 12.01	5A 7 N 14.01	6A 8 O 16.00	7A 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 Cl 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 (261)	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			