

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

PRINT YOUR NAME on the line: _____

Your start time on this test _____

Your finish time on this test: _____

Time it took you to do this test: _____

1. (42 pts, 3 pts ea) FILL IN THE BLANKS

1.1 Name 4 elements of the human body that are present in more than 1%:

(3 pts) _____

(3 pts) _____

1.2 Name 3 crucial trace elements in the human body and what they are responsible for:

(3 pts) _____

(3 pts) _____

(3 pts) _____

1.3 (3 pts) Rutherford shot a _____ at an aluminum foil. This particle has a _____ charge.

1.4 An atom consists of three particles [from a Chemist point of view]. List these **particles** and **charge** in order of increasing size [smallest first]:

(3 pts) Particle 1. _____ (3 pts) Charge: _____

2. _____ Charge: _____

3. _____ Charge: _____

1.5 (3 pts) The periodic table is in an organized format. The series of elements that go up and down a particular column are also known as the elements in a _____.

1.6 (3 pts) The Cation has a _____ charge.

1.7 (3 pts) A beam of light travels in a stream of packets of energy. Each packet is called _____.

1.8 (3 pts) Which gas is NOT responsible for the Greenhouse Effect. Circle those NOT responsible:

N₂

CO₂

H₂O

O₂

He

1.9 (3 pts) A high energy light particle corresponds to a **Short / Long** [Circle Correct Ans] wavelengths of light.

1.10 (3 pts) In the lab, we saw several gases that we exposed to a high electrical charge. These gases emitted various colors of light. The electrons of these gases are said to be in a _____ state.

2. (60 pts, 4 pts ea) Naming / Structures: Fill in the blanks

- 2.1 LiCl _____
- 2.2 _____ Beryllium Nitrate
- 2.3 SO₃ _____
- 2.4 _____ Strontium Hydrogen Sulfate
- 2.5 Al (ClO₃)₃ _____
- 2.6 Cu SO₄ _____
- 2.7 HNO₃ _____
- 2.8 _____ Tin (IV) Sulfate
- 2.9 _____ Silver Nitrate
- 2.10 Zn (HCO₃)₂ _____
- 2.11 Pb Br₄ _____
- 2.12 Mg (ClO)₂ _____
- 2.13 O₂F₂ _____
- 2.14 (NH₄)₂ CO₃ _____
- 2.15 H₂SO₄ _____

Periodic Table of Elements

										Alkaline earth metals															Noble gases						
										1A		2A												7A		8A					
										1	2											3	4	5	6	7	8	9	10		
										H 1.008	He 4.003											B 10.81	C 12.01	N 14.01	O 16.00	F 19.00	Ne 20.18				
										2	3	4	Transition metals										5	6	7	8	9	10			
										Li 6.941	Be 9.012											Al 26.98	Si 28.09	P 30.97	S 32.07	Cl 35.45	Ar 39.95				
										3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18						
										Na 22.99	Mg 24.31											Ga 69.72	Ge 72.59	As 74.92	Se 78.96	Br 79.90	Kr 83.80				
										4	5	6	7	8	9	10	11	12	13	14	15	16	17	18							
										K 39.10	Ca 40.08	Sc 44.96	Ti 47.88	V 50.94	Cr 52.00	Mn 54.94	Fe 55.85	Co 58.93	Ni 58.69	Cu 63.55	Zn 65.38	31	32	33	34	35	36				
										5	6	7	8	9	10	11	12	13	14	15	16	17	18								
										Rb 85.47	Sr 87.62	Y 88.91	Zr 91.22	Nb 92.91	Mo 95.94	Tc (98)	Ru 101.1	Rh 102.9	Pd 106.4	Ag 107.9	Cd 112.4	49	50	51	52	53	54				
										6	7	8	9	10	11	12	13	14	15	16	17	18									
										Cs 132.9	Ba 137.3	La* 138.9	Hf 178.5	Ta 180.9	W 183.9	Re 186.2	Os 190.2	Ir 192.2	Pt 195.1	Au 197.0	Hg 200.6	81	82	83	84	85	86				
										7	8	9	10	11	12	13	14	15	16	17	18										
										Fr (223)	Ra 226	Ac** (227)	Rf (261)	Db (262)	Sg (263)	Bh (264)	Hs (265)	Mt (268)	Ds (271)	110	111	112	113	114	115						
										Alkali metals											112	113	114	115	116	117	118				
										Uub (286)	Uut (287)	Uuq (288)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)	Uuq (289)	Uup (289)
																				metals ←											→ nonmetals

How do you rate this test from 1 to 10

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