Review # 1 Assignment- Unit 1- Matter

		-			
Fill	in	the	b	lan	k

1) 1s²2s²2p⁶3s²3p⁴_

2) 1s²2s²2p⁶3s²3p⁶4s²3d¹⁰4p⁶5s¹_

1. Anything	that has mass a	nd occupies space	is called M	atter		
2. A mixture	in which the co	omposition is unifo	rm througho	ut: homoo	eneous.	
3. The qualit	ty or condition o	of a substance that	can be obse	rved or measu	red without	
changing	the substance's	composition:	hysical	prope	cty	
4. The scien	tist credited wit	h the arrangemen	t of the perio	dic table is: <u>M</u>	lendeleev	
		an element that re	tains its iden	tity in a chemic	cal reaction:	
atom					emant	
6. The simp	lest form of ma	atter that has a uni	que set of pr	operties: On	ecule	
		ns joined together ins two or more el				
		1	ements chem	ileally combine	a iii a iixca	
proport	tion Comp	n as the: alko	li meto	15		
9. Group 1	any orbitals are	in each d sublevel	as described	in the Quantu	m Mechanical	
Model		in each a sastere.				
11. The sub	patomic particle	s involved in all bo	nds are calle	d electro	ons	
12. What is	s the abbreviate	ed electron configu	ration for Ca	? [Ar]	+52	
12 What is	the charge of	a cation: Toos	tive			
14 Civo or	a avample of a c	liatomic element:	Uz, Na,	La etc	. 3	
15. What i	s the total num	ber of electrons in	the outermo	st shell of a bo	ron atom?	-
Questions:						
(78.9	92 x 0.5 40.00	mu (50.69%) and 8 069) + (9) amu + eriodic table wher	30.92× 39.90	(0.4931) = 19.0	10amu
Element Name	Mass Number	Atomic Number	Number of	Number of	Number of	
Diement I was			Protons	Electrons	Neutrons	
copper - 64	1.4	29	29	29	35	
copper - 64	6+	29	29	29	35	
	6+	39	8	8	8	
	•					
oxygen-16 Oxygen-16 Calcium-41	16	8	8	8	8	
Oxygen-16 Oxygen-16 calcium-41	16	8 8	8 8	8 8 20	8 9 21	
Oxygen-16 Oxygen-16 calcium-41	16	8	8 8	8 8 20	8 9 21	
Oxygen-16 Oxygen-16 calcium-41	16	8 3 20 abbreviated) electr	8 8 20	8 8 20	8 2 l	
Oxygen - 16 Oxygen - 16 calcium-41 3. Write the gr	$ \begin{array}{c c} & 16 \\ & 16 \\ & +1 \\ \end{array} $ ound state (una	$\frac{8}{8}$ $\frac{3}{20}$ abbreviated) electrical $\frac{20}{35^2}$	8 8 20 Fron configuration	8 8 20 tions of the fol 2 3 d 6	8 2 l	
Oxygen - 16 Oxygen - 16 calcium-41 3. Write the gr 1) iron:	16 16 16 41 cound state (una 5 ² 25 ² 2	8 3 20 abbreviated) electr	8 8 30 5 5 5 5 5 5 5 5 5 5	8 8 20 tions of the fol 2 3 d 6	lowing elements:	

rubidium