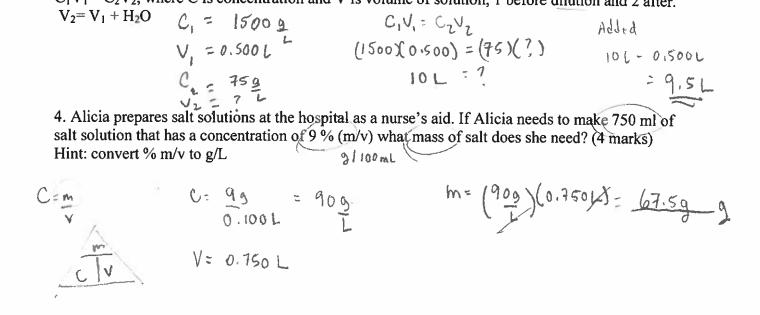
REVIEW			WeV/		
Chapter 1 Test: Matter	/50	Name:	KEY	Gr	p:
Part 1: True or False (9 marks	1,		·		
1 All atoms are elements. \(\frac{\frac{1}{2} \frac{5}{2}}{1} \)	Hrne				
2. All molecules are compoun If not, why not? &	ds. N.	= some	molecules have	same atoms 150 no oppound co	orpound
3. The particles of a solid are	always a	a bit closer tl	nan particles in its	liquid	
4. Forces of attraction are wea	ker betv	ween particle	es of a liquid than	for a solid.	
5. A solution is a heterogenou	s mixtuı	re. <u>F</u>			
6. Dilution involves decreasin	g a solu	tion's conce	ntration by adding	solvent. T	
7. Solubility is the maximum a	amount	of solvent th	at can dissolve a s		
8. The solubility of oxygen ga	s in wat	er increases	with increasing te	mperature. <u>F</u>	
Part 2:Short Answers (23 mar	ks)				
1. Indicate which of the follow properties (CP) or are character					
a) mass NC b) density CF e) flammability CC f) solu i) colour NC i) texture	c) vo	olume <u>NC</u>	d) conductivity	h) litmus test CC	physical chem p. 23-24
i) colour <u>NC</u> j) texture <u>/</u>	<u>νς</u> k) melting po	int <u>CP</u> 1) lime	water testCC	1
2. Place an M for homogenous a) soil b) air M			-	•	•
3. In each of the following des	scribe th	e most appro	opriate method for	obtaining the substan	ces by
physical separation. (4) Use C	entrifug	gation, Chror	matography _\ Decan	tation, Distillation,	
Evaporation or Filtration. Not		· .	•	·	
a) Oil from a mixture of oil an				-	
b) Salt from an aqueous salt so	olution:	evap	orafion		
c) Alcohol from an aqueous so	olution:	9141	illation		
d) Red pigment from black inl	k:	chromate	hickory		



4. Given the formulas for the following particles of pure substances:

Molecules: 58 H, CO, CO, C, H, O6 From PhO2

Elements: 1+2, 6; Co, Cu, Sg

d) Compounds: CO, CO, PbO2, Co, H2Ob, Fe, O3

(C = m/V), where C: concentration, m: mass of solute and V: volume of solution)

C = 169 = 649

hydroxide (NaOH) with a concentration of 24 g/L. (4 marks)

concentrated lemonade with a sugar concentration of 1500 g/L? (4 marks)

Part 3: Solve the Following Problems (18 marks) Show all Formulas, Work and Units!

1. If Leah dissolves 16 g of copper sulphate to make 250 ml of solution, what would the

2. Calculate the mass needed for Daniel to produce 250 ml of an aqueous solution of sodium

M= (249)(0.2501) = 6 9 L

3. What volume of lemonade with a concentration of 75 g/L could be produced from 500 ml of

 $C_1V_1 = C_2V_2$, where C is concentration and V is volume of solution, 1 before dilution and 2 after.

H₂, CO₂, Li, Co, CO, Cu, PbO₂, S₈, C₆H₁₂O₆, Fe₂O₃

b) Sort them as elements or compounds. (4 marks)

concentration of her solution be in g/L? (4 marks)

Y Include the volume of water required to add. (2 marks)

a) Sort them as atoms or molecules. (4 marks)