Nama	K011		D (
Name:	nag		Date:		Mod:
			ChemCom Midter	m Review	
1.	the hydrolog	ic cycle).	s (there are three) t	hat occur during the	water cycle (also called
2.	Condensation precipitation When measuring the following in a lab suggest an appropriate piece of equipment to use:				
	• Volu	me of acid nee	eded to complete ar	experiment <u>Gra</u>	duated cylinder
	• Mass	s of precipitate	formed by a chem	ical reactions bol	ance
3.		household mo	- 0	g. What is this mass 1000g. =	
4.	a mass of 46	.5 grams and a	sity = mass/volume volume of 38.7 m	e. What would be the L (include the units)	e density of a solid with
	V	36.	$\frac{1}{7} = 1.20$	g/ml	
5.	MassVolu	s = 8.94 g me of water al	splacement data be one = 56.9 mL and object = 67.1 ml	elow, what is the den	sity of the solid?
metal=	67.1-5	6.9= 10.	2mL		
)=	8.94	= 0.87 gl			
6.				placed in a beaker o	f water? no because it
7. 8.	Would the o	bject in question yes, beccetated number o	on 5 float or sink if when the follogen in the follogen	placed in a beaker of the control of	of water? 15 > 1.0
	• NaH • 3H2S 3 × 21	CO ₃ = 6 CO ₄) = 6			

Al₂(SO₄)₃
2 3 12

M

	9. For each of the following formulas, name the elements present and give the number of atoms of each element shown in the chemical formula.
	 H₂SO₄ (battery acid) Hydrogen - 2 Oxygen - 4 Sulfur - 1
	• C ₈ H ₁₀ N ₄ O ₂ (caffeine)
	Carbon - 8 Ntragen - 4
	Hydrogen - 10 oxygen - 2
	Znc - 1 Oxygen - 6
	hylrogen - 2
	10. Use the solubility curves for solids on the last page to answer the following: USE graph in your packets or p. 42 in book
	• How much KNO ₃ can be dissolved in 100 grams of water at 60°C?
	100g KN03
	• If 100 grams of water are saturated with KCl at 90°C and the water is cooled to a temperature of 40°C what type of solution will it now be?
	11. Use the solubility curve for gases on the last page to answer the following:
	• At 5 °C, if 1000 g of water has 12 mg of O ₂ dissolved in it, is this a saturated, unsaturated or supersaturated solution?
/	12. Calcium hydroxide is an ionic compound composed of calcium ions and hydroxide ions used in plaster and cement. What is the correct chemical formula? Use the ion chart on the last
	13. Sodium hydrogen carbonate is an ionic compound commonly called baking soda. What is the correct formula? Use the ion chart on the last page.
\	14. What is the correct chemical formula for magnesium phosphate an ionic compound? Use the ion chart on the last page.
	15. What is the correct chemical formula for carbon tetrafluoride, a covalent compound?

Cross Cross

CCI4

16. What is the correct chemical formula for diphosphorus pentasulfide, a **covalent** compound?

17. What is the correct name for each of the following **ionic** compounds?

- · Al(NO3)3 aluminum nitrate
- · NH4Br ammonium bromide
- · Caso3 Calgum sulfite

18. What is the correct name for each of the following covalent compounds?

- · P3Cl6 triphosphorus hexachloride
- · SiO2 Silicon dioxide
- · B2O4 diboron tetraloxide