## Science 10 – FINAL EXAM REVIEW

## Unit 1 – Chemistry

1. Wh		read the Period als located on t						
Wh	ere are the non	-metals located	on the peri	odic table?				
Rows are called:								
Colu	umns are called	·				6		
2.	On the followi What does the What does 12	ing diagram: e 6 represent:_ .011 represent:			-	C Carbon 12.011		
3.	Complete this	s chart for the fo	ollowing ele	ments				
	Element At	tomic Number	Neutrons	Protons	Electron	s Valance Electrons		
	Al							
	В							
	Ne							
	<u> </u>			<u></u>	<u> </u>			
<ol> <li>4.</li> <li>5.</li> </ol>	Lithiui Sodiui Nitrog Fluorii	s: tomic ion: e ionic charge th m gen ne	E (	Beryllium Carbon odine	MARAAMIN AMBURININ	<u>.</u>		
6.		tell when you ha		*				
7. 8.	How can you tell when you have a molecular compound?  How can you tell if you have an organic compound?							
o. 9.	•	tell if you have a	-	ompounds				
10.	•	tell if you have a						
11.	•	lowing ionic con						
a)	K <sub>2</sub> S		•		i)	CaCl₂		
b)					j)	CO <sub>2</sub>		
c)	СН4				k)	H <sub>2</sub> CO <sub>3(aq)</sub>		
d)	AlBr <sub>3</sub>				1)	NO <sub>3</sub>		
e)		····			m)	AuCl		
f) -\					n)	Na <sub>3</sub> N		
g)	LIRL <sup>(ad)</sup>				o)	LiOH <sub>(aq)</sub>		
h)	rec13			·····	p)	Na <sub>2</sub> CO <sub>3</sub>		

12.	Write the formulas for the following compounds:							
a)	Sodium oxide	i)	Nitrous Acid					
b)	Hydroflouric acid	j)	Hydroaresenic acid					
c)	Pentene	k)	Ethene					
d)	Copper (I) iodide	I)	Magnesium hydroxide					
e)	Calcium Nitride	m)	Dinitrogen tetraoxide					
f)	Lithium Fluoride	n)	Phosphorus trichloride					
g)	Sodium Phosphate	o)	Sulphide dioxide					
h)	Butane	p)	Carbon tetrafluoride					
	Balance the following chemical equations: Br <sub>2</sub> +H <sub>2</sub> →HBr							
۵,								
b)	$\underline{\hspace{1cm}} N_2 + \underline{\hspace{1cm}} H_2 \rightarrow \underline{\hspace{1cm}} NH_3$							
c)	$\underline{\qquad} Fe_2O_3 + \underline{\qquad} H_2 \Rightarrow \underline{\qquad} Fe + \underline{\qquad} H_2O$							
d)	$C_{10}H_{16} + C_{12} \rightarrow C_{12} + C_{12}$							
14.	Know the 6 types of reactions. Give an equation to rep	reser	nt each type:					
	nthesis		l) Neutralization					
		_	) Daubla Dienlagament					
יט נס	ecomposition	e) Double Displacement						
c) Co	c) Combustion f) Single Displacement							
destroit to the	Predict the products of the following reactions & Balar $C_3H_8 + Q_2 \rightarrow Q_2 \rightarrow Q_3H_8 + Q_4 \rightarrow Q_4 \rightarrow Q_5$ $= Na(OH)_{(aq)} + Q_4 \rightarrow Q_5 \rightarrow Q_$							
17.	What are the properties of Acids?							
18. What are the properties of Bases?								