Physical Science 10 Chemistry Review

1.	Be able to match each of the following words to their definition:			
	a. Alkaline earth metals	h. Proton	0.	Electron
	b. Chemistry	i. Neutron	p.	Subatomic particles
	c. Matter	 Molecular compou 	-	Pure substance
	d. Group	k. Ionic compound	r.	Particle Theory of
	e. Period	 Polyatomic ion 		matter
	f. Alkali metals	m. Chemical property		
	g. Covalent bond	n. Physical property		
2.	a) Where are valance electrons located?			
	b) How many valence electrons are in each of the following:			
	, ,	i) Nitrogen		
	c) What is the most reactive group of elements on the periodic table? The most un-reactive?			
3.	What two subatomic particles are found in the nucleus and what are their charges?			
4.	Draw Bohr diagrams of the following a	coms/ions:		
	a. nitride	c. Aluminum	e.	Chloride
	b. Nitrogen	d. Argon	f.	Magnesium ²⁺
5.	Identify the following elements based of	n their position on the j	periodic table:	
	a. Period 4, group 5	b. Period 5, group 1	c.	Period 2, group 17
6.	Why do elements gain or lose electrons	?		
7.	State the charge that each ion would have if it:			
	a. Lost 2 electrons	c.	Gained 3 electrons	
	b. Lost 1 electron	d.	Gained1 electron	
8.	For each of the following state whether it is a physical or chemical change.			
	a. A popsicle melts on the pavement			
	b. Gasoline burns in the air			
	c. Water freezes at 0°C			

9. What is the difference between an ionic compound and a molecular compound in terms of: a. The bonds formed between them

b. The elements involved