	Chemistry,	Chapter	6	&	7
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17. <u>chloride</u>

Chemistry, Chapter 6 & 7	NAME:
Chapter 6 Review	
1. atomic mass	On Mendeleev's periodictable, the elements were ordered according
2. fluorine	to increasing atomic number / atomic mass is the most electronegative element on the Periodic Table.
3. halogens	Fluorine, chlorine, bromine, iodine, and astatine are in Group 17.
4. <u>electronegativity</u>	Group 17 elements are also known as this. Periodic trend that measures the ability of an atom in a compound to attract electrons. Group – decreases from top to bottom within a
5. Lewis structures	group. Period – increases from left to right across a period φ - ϕ A diagram that shows valence electrons as dots. Also known as electron dot structures. Valence electrons are those electrons in the
6. <u>metals</u>	highest occupied energy level of an element's atoms. Elements that are malleable and ductile. They are good conductors of
7. <u>nonmetals</u>	heat and electric current. Will often have a luster. Elements that are poor conductors of heat and electric current.
8. Atomic radius	Periodic trend that measures one-half of the distance between the
9. <u>Sonic radius</u>	nuclei of two atoms of the same element when the atoms are joined. Group – increases from top to bottom in a group. Period – decreases from left to right across a period ρ . Periodic trend that measures the size of cations and anions compared to their neutral atoms. Group – ionic size increases from top to bottom within a group. Period – ionic size decreases from left to right across a period ρ .
10. <u>ionization energy</u>	Periodic trend that measures the energy required to remove an electron from an atom. Group — tends to decrease from top to bottom within a group. Period—tends to increase from left to right across a
11. atomic number	period φ . 7 On the modern Periodic Table, the elements are ordered according to
12. Periodic Law	increasing atomic number / atomic mass This law states that the physical and chemical properties of the
13. Octet rule	elements are functions of their atomic number. This rule states that to form a compound, atoms tend to react so as to
Chapter 7 Barriery	acquire the stable electron configuration of a noble gas.
Chapter 7 Review	
14. <u>Ionic compounds</u> 15. <u>Cations</u>	Type of compounds that are composed of cations and anions but have an overall neutral charge. < Neutral atoms < Ahiona
16. oppositely charged	In an ionic compound each positive ion is surrounded by negative ions and each negative ion is surrounded by positive ions. This results in

an ionic compound containing ____ions.

expect to be a larger ion?

Between a Sodium cation (Na+) and a chloride (Cl-), which would you

NAME:	

18. halide ion 19. formula unit

The name for a negative ion that forms when a halogen atom gains an electron.

The lowest whole number ratio of ions in an ionic compound.

If the electronegativity difference is ____ or greater, it will be an ionic bond.

Element	Electronegativity
Hydrogen	2.1
Aluminum	1.5
Fluorine	4.0
Boron	2.0
	71 7 7

Would an ionic bond form between hydrogen and boron?

Would an ionic bond form between fluorine and boron?

Chemical formula This shows the kinds and numbers of atoms in the smallest representative unit of a substance.

A mixture of two or more elements, in which at least one is a metal.

Compounds that conduct electricity better in the melted or dissolved state than in the solid state.

This type of bond is the result of the attraction of free-floating valence electrons for positively charged

metalions. The "sea of electrons" are moving freely between many positive nuclei.



27. ionic bond

As electrons are being lost by the Lithium ion and being gained by the Fluorine ion, what type of bond is being formed?

