	•	
Name:		Period:

Combinations of Atoms

Define the following terms 1. Compound -						
2. Mixture						
Identify each of the fo	ollowing as a mixture		O 11 OL 1877			
4. solution	7. salt		10. air			
5. NaCl	8. water		11. Vinegar & oil			
•	s made up of two aton		and one atom of ad one ion of			
			sically separated from one another.			
15. Sweetened tea is a						
16. A (n)	_ cannot be separate	d into its indiv	vidual elements by physical means.			
	-		er of protons in the atoms of an in an atom is called the atomic			
	ns and neutrons in the	nucleus. The	s and neutrons. The mass number mass of an electron is so small			

II. Atoms

Element	Symbol	Number of Protons	Number of Neutrons	Number of Electrons	Atomic Number	Mass Number
Oxygen	О	8		8		16
Silicon	Si	14	14			28
Aluminum	Al		14	13	13	
Iron	Fe				26	56
Calcium	Ca	20		20	-	
Sodium	Na			·	11	23
Copper	Cu	29	35	29		
Magnesium	Mg				12	24
Gold	Au	79				197
Silver	Ag		61	47		

III. Isotopes

Element	Symbol	Number of Protons	Number of Neutrons	Number of Electrons	Atomic Number	Mass Number
Hydrogen-1	H-1	1				
Hydrogen-3	H-3			1	-	
Boron-12	B-12				5	
Boron-11	B-11		·			11
Carbon-13	C-13		7			
Uranium- 235	U-235			92		
Uranium- 238	U-238			,	92	

III. Ions

Anion or Cation	Number of Protons	Number of Neutrons	Number of Electrons	Atomic Number	Mass Number
		,			
	1	1			

Revised: 11/5/08