SNC2D – Chemistry Unit	Periodic Table Review Questions	Name:		
<ol> <li>Find Gallium on the Periodic Table:</li> <li>A) How many electrons in an atom</li> </ol>				
B) How many neutrons in an atom of Gallium?				
C) How many electron shells does a Gallium atom have?				
D) How many electrons in the valence shell of a Gallium atom?				
E) Write the symbol for the ion that you would expect Gallium to form				
<ul> <li>2. Name the element:</li> <li>A) This element has two electrons in its outer orbit, and it belongs to the second period.</li> </ul>				
B) This element's most common is	otope has a mass number of four and two neu	trons per atom		
C) This element has eight electrons	s in its outer orbit, which is the second orbit			
D) The outermost electrons of this magnesium.	element lie in the fourth orbit, and it has chen	nical properties similar to		
E) This element has four electrons group	in its outermost orbit, and it has the smallest a	atomic mass of the elements in its		
F) This element's outermost electro in its period.	ons lie in the second orbit, and it is the most re	eactive non-metal		
G) This element is the most reactiv similar to lithium	re metal of the top four elements in its group, a	and it has chemical properties		
3. Explain why lithium, sodium and p	otassium are almost never found in the pure s	tate in nature.		

4. Which subatomic particle has a positive charge? Negative charge? No charge?

- 5. What subatomic particles are located in the nucleus? Around the nucleus?
- 6. Why is the number of electrons in the valence shell of an atom important?
- 7. What number is equal to the number of protons in the atom?
- 8. How do you calculate the number of neutrons in an atom?

Name:\_\_\_\_\_

9. Identify the element represented in each Bohr-Rutherford diagram.

L		B)			
		5)			
10.	Answer the following questions:				
	A) How many electrons are in a ne	eutral atom of lithium?			
	B) How many neutrons are in an a	atom of Mg-25?			
	C) What is the mass number of an atom with 5 protons and 7 neutrons?				
	D) How many electrons are in O <sup>2</sup>	?			
	E) How many electrons are in Mg	2+?			
11.	Write the name and atomic numl	ber of three elements that have completely filled valence shells.			
12.	For each of the following, identify	the element from the description of its location on the period table:			
	A) Period 1, group 18	C) period 4, group 17			
	B) Period 3, group 2	D) period 2, group 16			
13.	A) Which period contains the hig	hest number of non-metals?			
	B) What are the names of the no	on-metallic elements in this period?			
	C) Which group contains the hig	hest number of non-metals?			
14.	Periodic Table Puns:				
A)	Not an exciting person:				
B)	Part of a whole:				
	A very smart person:				
	Someone who loves computers:				
E)	A "prize" element:				
F)	Mickey's Pal:				
G)	What you do in a play:				
п)	Your brother or mine:				