Science 8 **Atomic Theory Practice Test**

Name: Date: **Block:**

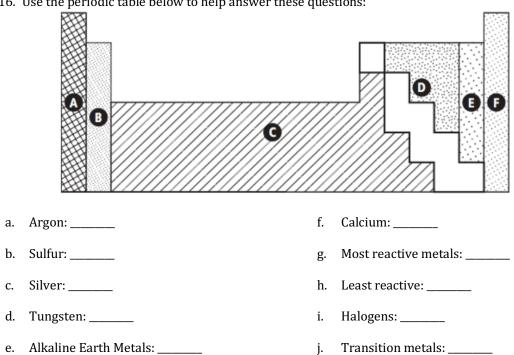
This	This practice test is designed to help you determine what concepts you DO know and more importantly what concepts you DO NOT know!										
	Go through the practice test THREE times: (1) On your own (2) With your notes (3) With another student										
	U										
Each time, if you cannot answer a question, draw a circle around it to identify that you should review											
this concept when preparing for the test.											
1.	What is an element?										
2.	Classify the following as an e	element, compound or mixture:									
	Fluorine:	CO ₂ :									
	Sandwich:	Water:									
	Coffee:	Computer:									
3.	What is the lightest element	?									
4.	Which family is the following	g element a part of?									
	Radium:	I:									
	Sodium:	Xenon:									
	Mg:	Nickel:									
	Neon:	Ba:									
5.	What is an atom?										
6.	5. Give three examples of elements in substances or objects that you use:										
	a)										
	b)										
	c)										
7.	How is the Periodic Table or	ganized?									

- 8. What is one property/characteristic of alkali metals?
- 9. What does the atomic number represent?
- 10. What does the atomic mass measure?
- 11. What are the three subatomic particles?
- 12. Complete the following table:

Subatomic Particle	Charge	Location in the atom	Mass
	neutral		
	negative		
	positive		

- 13. Determine the subatomic particle(s) described by the following statements:
 - a. Has a charge: _____ and _____
 - b. Has the heaviest mass: ______ and _____
 - c. Does not have a charge: _____
 - d. Has the lightest mass: _____
 - e. Is found in the nucleus: ______ and _____
 - f. Has equal masses: _____ and _____
 - g. Gives the nucleus a positive charge: _____
 - h. Is found in shells that surround the nucleus: ______
 - i. Have equal quantities in all **neutral** atoms: ______ and _____
- 14. Why does the nucleus of an atom have a positive charge?

15. Where is most of the volume found in the atom? Explain with your answer with a diagram.



16. Use the periodic table below to help answer these questions:

17. Complete the following table:

Element Name	Element Symbol	Atomic Number	Atomic Mass	# of protons	# of neutrons	# of electrons
	Ti					
		35				
	Au					
						83
					8	

18. What does a Bohr model represent?

19. In a Bohr Diagram, what is the maximum number of electrons allowed in the:

- a) Innermost (first) shell? _____
- b) Second shell? _____
- c) Third shell? _____

20. Identify the element represented by the following Bohr Diagram:

