Science 9

## **Chemistry I-III Practice Quest**

/30

Name: Hey Date: Block:

This practice test is designed to help you determine what concepts you DO know o NOT know!	and more importantly what concepts you DO						
Go through the practice test THREE times:							
(1) On your own (2) With your notes (3) With another student							
1 (2)							
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.							
Multiple Choice. Choose the BEST answer (1 mark each)							
b 1. Ions of the same element have the same number of a. Electrons b. Protons	c. Atoms d. Ions						
2. Which of the following is correctly paired?  a. Element – Air (homogeness)  b. Compound – Coffee  (homogeness)	Homogenous mixture - Copper Heterogeneous mixture - Cereal						
a. Boiling water b. Firewood burning c. Cutting paper d. Mixing cake batter	ange?  our  our  ce = formed.  at + light						
<ul> <li>4. If an element can be stretched into thin long wires, the element a. Shiny</li> <li>b. Brittle</li> <li>c. Ductile</li> <li>d. Malleable - harmered into a thin sheet</li> </ul>							
5. Which of the following elements is the LEAST reactive?  a. Fluorine Halogen  b. Lithium Alkali metal J very reactive!	c. Aluminum d. Argon  Shable gas.						
	unreactive						

## **Short Answers.**

6. Discuss how the earliest forms of the periodic table was ordered. (2 marks)

7. Which scientist was responsible for changing the periodic table to its modern form? (1 mark)

6 Discovered the atomic number (# protons)

8. Why are families grouped together? (1 mark)

9. Complete the following table: (0.25 marks each / 7 marks)

Name	Symbol	Atomic	# of	# of	# of	Atomic	Ion	Period	Group	Metal,
		Number	Protons	Electrons	Neutrons	Mass	charge	#	#	Non-
										metal or
										Metalloid?
Aluminum Atom	Al	13	13	13	14	27	G	3	13	Metal
Oxygen ion	08-	8	8	10	8	16	2-	R	16	Non- metal
Calcium Ion	Coa+	20	20	18	20	40	Q+	4	2	Metal

- 10. What are TWO distinctive properties of METALLOID elements? (2 marks)
  - a. Shiny (like metals)
  - b. Britte + not ductile (like non-metals)
  - c) Poor conductors of heat + electricity (line non-metals)

## 11. Draw a Bohr model for the following elements: (3 marks each)

Oxygen Atom	Oxygen <mark>Ion</mark>
Sp <sup>4</sup> Sn°	Sp. Sh.
# of Protons:	# of Protons:

