

Name _____ Date _____

Atomic Structure Review Sheet

Quantitative Chemistry

1. Briefly state the accomplishments of each scientist or group.

a. Ancient Greeks

e. JJ Thomson

b. Alchemists

f. Ernest Rutherford

c. Robert Boyle

g. Niels Bohr

d. John Dalton

h. James Chadwick

2. What are the 5 points of Dalton's atomic theory? (Summarize.)

a.

b.

c.

d.

e.

3. What is the atomic number? _____ Mass Number? _____

4. Which subatomic particle is positive? _____ Negative? _____

5. What are isotopes?

6. What are ions?

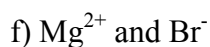
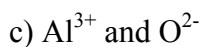
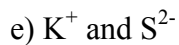
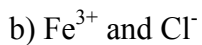
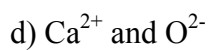
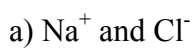
7. What are abundant elements in the earth?

The human body?

8. What are trace elements?

9. Describe the significance of Carbon-14.

10. Write the formulas of the binary compounds that would form from the following:



11. Complete the following table with the appropriate information.

Symbol	Atomic Number	Mass Number	Protons	Neutrons	Electrons
${}_{17}^{35}\text{Cl}^{1-}$					
			13	14	13
	13	27			10
${}_{29}^{63}\text{Cu}^{2+}$					
		32	16		18

12. Draw Bohr models for each of the following. Be sure to label each part.

${}_{3}^{7}\text{Li}$	${}_{12}^{24}\text{Mg}^{2+}$
-----------------------	------------------------------