Chem Homework:

Atomic Models and Isotopic Symbols

Name		
Block	Date	

Draw the **Bohr Model** for the elements listed based upon the isotopic symbol provided. Determine how many valence and core electrons each model has below your diagram.

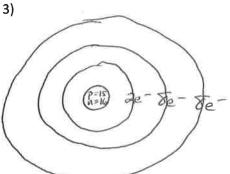
Valence e-

Core e-

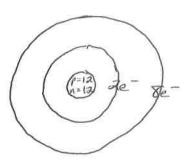
Valence e-

Core e- _____

Write the isotopic symbol for the elements diagramed below.



4)



Isotopic Symbol _____

Isotopic Symbol _____

5)	Rewrite the isotopic symbol you figured out for question #4:		
	How would this symbol change if the following changes to the atom occur?		
	a. You add an electron to the		
	b. You remove a proton fron New isotopic symbol =		
	c. You add two neutrons to to New isotopic symbol =		
6)	6) Redraw a short hand Bohr Model of the atom in question #2 below.		
	What is the nuclear charge of this atom?		
	What is the effective nuclear charge felt by an electron in the 1 st energy level?		
	What is the effective nuclear charge felt by an electron in the 2 st energy level?		
	What is the effective nuclear charge felt by an electron in the valence energy level?		