

## Ch 4 Review

Use the periodic table to complete the following charts. Remember to round the atomic masses into whole numbers

Table 1.

Name	Symbol	Atomic #	Protons	Neutrons	Electrons	Group	Period
		17					
			7				
					11		
						7A	2
				0			

Table 2.

Name	Valence e <sup>-</sup> #	Atomic Model	Dot diagram	Happy Y/N
Nitrogen				
Lithium				
Calcium				

1. List the name, charge, location and mass of each of the three parts of the atom.
2. What determines the reactivity of an element?
3. Why is an atom considered to be electrically neutral?

## I. Identify the following elements as being metallic (M) or nonmetallic (NM)

- \_\_\_\_ 1. aluminum    \_\_\_\_ 2. beryllium    \_\_\_\_ 3. boron    \_\_\_\_ 4. carbon  
\_\_\_\_ 5. chromium    \_\_\_\_ 6. cobalt    \_\_\_\_ 7. copper    \_\_\_\_ 8. argon  
\_\_\_\_ 9. chlorine    \_\_\_\_ 10. iron    \_\_\_\_ 11. potassium    \_\_\_\_ 12. calcium  
\_\_\_\_ 13. barium    \_\_\_\_ 14. sulfur    \_\_\_\_ 15. phosphorus    \_\_\_\_ 16. silver  
\_\_\_\_ 17. zinc    \_\_\_\_ 18. lithium    \_\_\_\_ 19. oxygen    \_\_\_\_ 20. iodine

## II. Identify the following as being a property of metals (M) or nonmetals (NM).

- \_\_\_\_ 21. good conductor of electricity  
\_\_\_\_ 22. low density  
\_\_\_\_ 23. high melting point  
\_\_\_\_ 24. malleable  
\_\_\_\_ 25. brittle  
\_\_\_\_ 26. ductile  
\_\_\_\_ 27. low melting point  
\_\_\_\_ 28. lusterous  
\_\_\_\_ 29. liquid or gas at room temperature  
\_\_\_\_ 30. dull

## III. Identify the following combinations as forming an ionic compound (I) or covalent compound (C).

- \_\_\_\_ 31. C and H    \_\_\_\_ 32. Ag and Cl    \_\_\_\_ 33. Mg and I    \_\_\_\_ 34. N and H  
\_\_\_\_ 35. C and O    \_\_\_\_ 36. Fe and O    \_\_\_\_ 37. Mn and S    \_\_\_\_ 38. Ba and Cl  
\_\_\_\_ 39. K and F    \_\_\_\_ 40. P and F    \_\_\_\_ 41. Zn and O    \_\_\_\_ 42. C and Cl  
\_\_\_\_ 43. Au and Cl    \_\_\_\_ 44. Ti and O    \_\_\_\_ 45. S and Br    \_\_\_\_ 46. Ni and S  
\_\_\_\_ 47. Cr and Se    \_\_\_\_ 48. Na and Cl    \_\_\_\_ 49. Li and I    \_\_\_\_ 50. N and Br