

Electron Configuration Homework

1. Complete the table for the following elements:

Element	Number of protons	Number of neutrons	Number of electrons	Electron Configuration
	1	0		
Carbon			6	2,4
Aluminium	13		13	
Sulfur		16		

2. How many electrons...

a. Does potassium have in its third energy level?

b. Does nitrogen have in its first energy level?

c. Does chlorine have in its highest energy level?

3. Describe the relationship between the number of energy levels and the distance from the nucleus.

4. Draw the following electron configuration diagrams:

a. Helium

b. Phosphorous