

Worksheet # C17: Electron Configurations

1. Use the handout called "Energy Level Diagram" to write out the electrons configurations for the first few alkali metals (and hydrogen). Remember that each circle can hold two electrons.

a. H _____

b. Li _____

c. Na _____

d. K _____

What do all of these have in common? They all end in _____.

2. Now draw the arrows chart that will help you memorize the order of electron configurations. Use it to write out the electron configurations of the first few halogens.

a. F _____

b. Cl _____

c. Br _____

d. I _____

What do all of these have in common? They all end in _____.

3. Now use the arrow chart to write out the first few noble gases. Notice how your answers to #2 can help speed this along?

a. He _____

b. Ne _____

c. Ar _____

d. Kr _____

e. Xe _____

What do all of these have in common? They all end in _____.

4. Write out the electron configurations of a few more elements:

a. C _____

b. La _____

c. P _____

d. Y _____

e. Cu _____

f. Au _____

5. How are these coming for you? _____