

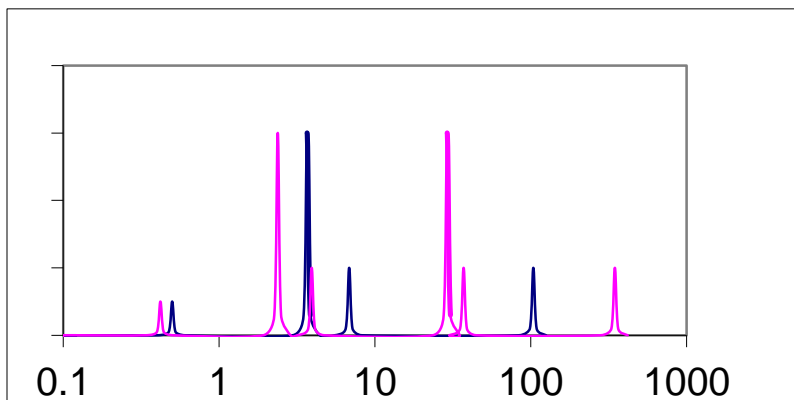
Reviewing ionization energy

1. What is ionization energy?

2. Look at the PES graph. Sodium is in blue, potassium is in pink.

- a. What do you notice about the location of sodium and potassium on the periodic table?

- b. Would it be more challenging to move the outermost electron of sodium or potassium?

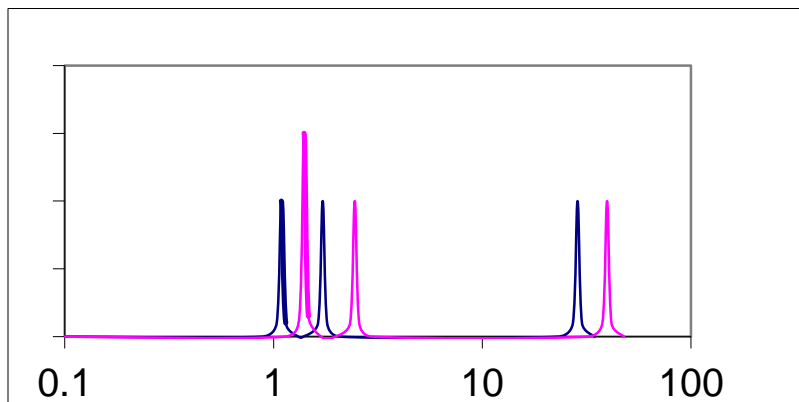


- c. Fill in the blank: as you go DOWN a group on the periodic table, it takes _____ (more/less) energy to remove the outermost electron. Why do you think this trend is?

3. Look at the PES graph. Carbon is in blue, nitrogen is in pink.

- a. What do you notice about the location of carbon and nitrogen on the periodic table?

- b. Would it be more challenging to move an electron from the outermost orbital or carbon or nitrogen?



- c. Fill in the blank: as you go ACROSS a group, left to right, on the periodic table, it takes _____ (more/less) energy to remove the outermost electron. Why do you think this trend is?

Put it all together!!! Ionization energy _____ as you go DOWN group, and _____ as you go from LEFT to RIGHT across the periodic table