



Unit: Periodic Trends Initiation: Energy Trend – Which Way?

AP/IB/IB/IB



Directions: Please answer each #1 to the best of your ability and show work.

1. The energy required to remove an electron from a gas atom is called the **ionization energy**.
 2. When an electron is removed that atom gets a **positive ion charge**.
 3. The energy required to remove a second electron is called the **second ionization energy**.
 4. It always requires **more** to remove a second electron.
 5. The energy required to remove an electron is always more, more greater if the atom is transferred with a **higher** positive charge. This electron is removed.
 6. The ionization energy of the elements will **decrease** as you move down a group on the Periodic Table.
 7. This is because the more down you **go**, affecting by the nucleus as they get further away from the nucleus.
 8. The ionization energy of the elements will **increase** as you move from left to right across a period on the periodic table.
 9. This is because the more down you **go**, the same distance from the nucleus that same period, but the elements have **more** protons as you move from left to right across the periodic table.
10. Circle the element in each of the following pairs with the greater **1st ionization energy**:
- | | |
|--------------------------------------|--------------------------------|
| a) Lithium or Boron | c) Potassium or Calcium |
| b) Strontium or Strontium | d) Sodium or Argon |
11. Arrange the following elements in order of increasing ionization energy:
- | | |
|---------------------------------|---------------------------------|
| a) Sr, Rb, Mg Al, Mg, Sr | c) Na, Li, K, Mg, Rb, Sr |
| b) Sr, Ca, Ba Ca, Ba, Sr | |
12. Why is there a very large increase between the 1st and 2nd ionization energies?

Unit 5 Ws 3 Energy V0

Ying Liu



Unit 5 Ws 3 Energy V0:

Whispering the Techniques of Language: An Mental Quest through **Unit 5 Ws 3 Energy V0**

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