

Periodic Trend Research

1. Which trend are you researching? Ionization Energy Trend
2. Define "**first ionization energy**". _____

3. What trend happens when **successive ionization energies** are measured? _____

4. How is **ionization energy** measured? _____
5. What happens to the trend moving from **left to right** across a period? _____
6. Explain how this trend affects the **noble gases**. _____

7. What happens to the trend moving **down a group**? _____

8. How does **Coulomb's Law** affect this trend? _____

9. Explain how the trend is different for **metals versus nonmetals**? _____

10. Which group/ element has the **largest value** for this trend? _____/_____
11. Which group/ element has the **smallest value** for this trend? _____/_____
12. How does this trend affects **ionic bonding**? _____

13. How does this trend affect **covalent bonding**? _____

14. How does the ability to lose a valence electron affect the bonds **polarity**? _____

15. How do the **other trends** affect this one? _____

