

Periodic Trend Research

1. Which trend are you researching? **Ionic Radius Trend**
2. Define the word "**radius**". _____
3. How is ionic radius measured? _____

4. Define the word "**ion**". _____
5. What determines whether the ion will be **positive or negative**? _____

6. What happens to the size of an atom when it becomes a **positive ion**? _____
7. Why? _____
8. What happens to the size of an atom when it becomes a **negative ion**? _____
9. Why? _____
10. What type of ions do **metals** form? _____
11. Why? _____
12. What type of ions do **non-metals** form? _____
13. Why? _____
14. In general are metal ions **bigger or smaller** than non-metal ions? _____
15. What happens to the trend moving from **left to right** across a period? _____
16. What happens to the trend moving **down a group**? _____
17. How does Coulomb's Law affect this trend? _____

18. Which group/ element has the **largest value** for this trend? _____ / _____
19. Which group/ element has the **smallest value** for this trend? _____ / _____
20. How do you think this trend affects **chemical reactions**? _____

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

List the other members in your group: _____