

Periodic Trend Research

Atomic Radius Trend

1. Which trend are you researching? _____
2. How is atomic radius measured? _____

3. Define "**nuclear force**". _____
4. Define "**electromagnetic force**". _____
5. How does the electromagnetic force affect the size of an atom? _____

6. Define "**electron - electron repulsion**". _____
7. How does electron - electron repulsion affect the size of an atom? _____
8. How does **Coulomb's Law** affect this trend? _____

9. What happens to the trend moving from **left to right** across a period? _____
10. What happens to the trend moving **down a group**? _____
11. Explain how the trend is different for **metals versus nonmetals**. _____

12. Which group/ element has the **largest value** for this trend? _____ / _____
13. Which group/ element has the **smallest value** for this trend? _____ / _____
14. How do you think this trend affects **chemical reactions**? _____

15. How are **other Periodic trends** related to atomic radius? _____

