

Teacher's Tools[®] Chemistry
Atomic Structure: Periodic Trends: Worksheet 5

1. In period 3 of the Periodic Table which element has the lowest first ionization energy?
2. In period 3 of the Periodic Table, which element has the highest first ionization energy?
3. Of all the elements, which one has the highest first ionization energy?
4. What is the element that has the lowest first ionization energy?
5. What is the element with the greatest electronegativity?
6. In period 2, which element has the smallest atomic radius?
7. In the halogen family, which element has the largest atomic radius?
8. Given the valence electron configuration of elements a, b, c, and d:
A. $4s^1$ B. $5s^1$ C. $5s$ D. $5s^25p^3$
which element has the lowest first ionization energy?
9. The element with the atomic number 118, if discovered, will be in what family?
10. What family of elements consists of soft metals of low melting point, all of which react vigorously with water at room temperature?