

Chemical Elements

On <http://academic.pgcc.edu/~ssinex/chm101.html> you will find a set of PowerPoint slides on the *Periodic Table of the Elements*. Use these to address the following:

1. Name an element that has a biological function in trace quantities: _____
2. Name an element that has a biological function in large quantities: _____
3. Name three man-made elements: _____ _____ _____
4. Name two elements that are gaseous at room conditions: _____ _____
5. Name an element that is a liquid at room conditions: _____
6. Name an element that has NO stable forms (all radioactive): _____
7. Name an element that is molecular in its free form: _____
8. Name an element that is natural but does not occur on Earth: _____
9. Most elements exist as what state of matter? _____
10. Does uranium exist in a stable (non-radioactive) form? _____
11. A gaseous element that has NO stable forms (all radioactive): _____
12. Name an element in each of the following blocks:
s block _____ p block _____ d block _____ f block _____
13. List the valence electrons for As _____ for Rb _____
14. Write the formula for an ionic hydride. _____
15. Name a radioactive natural element found on Earth: _____

16. An element that can form an ion with +3 charge and be isoelectronic with a noble gas: _____

17. Name an element that has similar properties to Sr: _____

18. Name an element that is extremely toxic: _____

19. For any element of your choice, go to the WebElements interactive periodic table at <http://www.webelements.com> and find the following information.

Element _____

Density _____ Melting point _____ Boiling point _____

A reaction of the element and the conditions required.

20. For the elements you selected for questions #1 and #2, using the WebElements, find the biological function of these two elements.