

## WORLD OF CHEMISTRY

### Episode 7 - The Periodic Table

#### Watch video and answer questions in lab notebook

1. What two types of properties are described in the video?
2. What are some examples of physical properties?
3. How many elements are on the modern periodic table? How many of these can be found in nature?
4. Why do the symbols for some elements (such as iron) seem to have no relationship to their name?
5. What is meant by the atomic and mass number of an element?
6. Elements in the periodic table are arranged by increasing \_\_\_\_\_ number.
7. What is a group of elements? a period?
8. What are the ingredients used in the making of glass? What determines the color of glass?
9. What are alkali metals? Describe their reaction with water.
10. How does the size of an atom change
  - a. as you go down a group of elements?
  - b. as you go from left to right in a period of elements
11. Who developed the periodic table?
12. What did Mendeleev do for elements that had not yet been discovered?
13. How did Glenn Seaborg change the periodic table?
14. Why are the electrons in the outer shell of an atom important?
15. Define *valence*

Do the Inquiry Activity on page 154 of text (Problem side of Lab NB)

## NO OUTLINE REQUIRED FOR CHAPTER 6

