

Directed Reading A *continued*

CHANGING THE ARRANGEMENT

- _____ 6. How did Moseley solve the problem of the elements that did not fit the pattern according to their properties?
- a. He rearranged the elements by atomic mass.
 - b. He discovered protons, neutrons, and electrons.
 - c. He disproved the periodic law.
 - d. He determined the elements' atomic number and then arranged them by atomic number.
7. When the repeating chemical and physical properties of elements change periodically with the elements' atomic numbers, it is called the

_____.

PERIODIC TABLE OF THE ELEMENTS

- _____ 8. Which information is NOT included in each square of the periodic table in your text?
- a. atomic number
 - b. chemical symbol
 - c. melting point
 - d. atomic mass
9. How can you tell on the periodic table that carbon is a solid at room temperature?

THE PERIODIC TABLE AND CLASSES OF ELEMENTS

10. Elements are classified as metals, nonmetals, or metalloids according to their
- _____.
11. The number of _____ in the outer energy level of an atom helps determine which category an element belongs in.
12. How can the zigzag line on the periodic table help you?

