**Chapter 5 Periodic Table Name:**

**5-1 Organizing the Elements**

1. Who is given credit for the first periodic table?
2. How many elements were on the first table?
3. How was the first table organized?
4. What 3 pieces of information did Mendeleev know about each element?
5. True or False. A periodic table is an arrangement of element in columns, based on a set of properties that repeat from row to row.
6. Why did Mendeleev leave some locations in his periodic table blank?
7. What is one element that was discovered after Mendeleev published his periodic table that supported Mendeleev’s predictions and provided evidence to validate the table?

**5-2 Modern Periodic Table**

1. How is the modern periodic table arranged?
2. Properties of elements repeat in a predictable way when atomic numbers are used to arrange elements into groups. This pattern of repeating properties is called the \_\_\_\_\_\_\_\_\_ law.
3. A chemical symbol represents the \_\_\_\_\_\_\_\_ of an element.
4. Horizontal rows are called \_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Vertical columns are called \_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Name the 3 categories into which elements are classified based on their general properties.
7. List 3 characteristics of metals.
8. List 3 characteristics of nonmetals.
9. What is a metalloid?