



1. The periodic table is defined as \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_ are substances that cannot be broken down into simpler stuff by any chemical means.

3. Dmitri Mendeleev was a \_\_\_\_\_ scientist who set up the periodic table in the \_\_\_\_\_ century.

4. Using Mendeleev's system elements with similar \_\_\_\_\_  
\_\_\_\_\_ properties fell into families or groups.

5. Families or groups are designated by what? \_\_\_\_\_

6. Elements on the periodic table are usually identified with three things. What are they?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Protons are found in the \_\_\_\_\_ of an atom.

8. Metals are found on the \_\_\_\_\_ side of the table, while the nonmetals are found on the \_\_\_\_\_ side of the table.

9. An element that is an alkali metal is \_\_\_\_\_.

10. Helium (He) is a \_\_\_\_\_.

11. There are two rows of elements on the bottom of the table. These elements are the rare earth metals. What is the name given to each of these rows of elements?

\_\_\_\_\_  
\_\_\_\_\_

12. Name two elements in group VIIA.

\_\_\_\_\_  
\_\_\_\_\_

## Answers to the worksheet

1. The periodic table is defined as **an organization of the elements in order of increasing atomic number and grouped according to similar chemical properties and similar electron arrangements.**
2. **Elements** are substances that cannot be broken down into simpler stuff by any chemical means.
3. Dmitri Mendeleev was a **Russian** scientist who set up the periodic table in the **nineteenth** century.
4. Using Mendeleev's system elements with similar **physical and chemical** properties fell into families or groups.
5. Families or groups are designated by what? **Vertical columns**
6. Elements on the periodic table are usually identified with three things. What are they?  
**Symbol**  
**Atomic number**  
**Atomic weight**
7. Protons are found in the **nucleus** of an atom.
8. Metals are found on the **left-hand** side of the table, while the nonmetals are found on the **right-hand** side of the table.
9. An element that is an alkali metal is **lithium, sodium, potassium, rubidium, cesium, or francium.**
10. Helium (He) is a noble **gas.**
11. There are two rows of elements on the bottom of the table. These elements are the rare earth metals. What is the name given to each of these rows of elements?  
**Lanthanides**  
**Actinides**
12. Name two elements in group VIIA. **Fluorine, chlorine, bromine, iodine, or astatine**