

# Periodic Table of Elements

Name \_\_\_\_\_

1. Give the atomic numbers of each of the following elements:

Copper \_\_\_\_\_ Neon \_\_\_\_\_ Sulfur \_\_\_\_\_ Sodium \_\_\_\_\_

Chlorine \_\_\_\_\_ Gold \_\_\_\_\_ Iron \_\_\_\_\_ Aluminum \_\_\_\_\_

2. Identify the elements' names from their atomic numbers below:

8 \_\_\_\_\_

11 \_\_\_\_\_

17 \_\_\_\_\_

3. An atom has an atomic number of 12 and an atomic mass number of 14. Answer the following questions about the element:

What is the name of the element? \_\_\_\_\_

How many protons does it have? \_\_\_\_\_

How many electrons does it have? \_\_\_\_\_

How many neutrons does it have? \_\_\_\_\_

4. Why does an atom have to have the same number of protons and electrons?

5. Calcium reacts easily with chlorine. List two other elements that you predict would react similarly with each other. \_\_\_\_\_ and \_\_\_\_\_. Why?

6. Sodium reacts violently with water. List one other element that you predict would react violently with water. \_\_\_\_\_ Why?

7. Out of aluminum, sulfur, fluorine, and neon, which would you predict would be the most reactive? \_\_\_\_\_ Which one would be the least reactive? \_\_\_\_\_ Explain why you made those predictions.