

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

### The Periodic Table

**Directions:** Use Chapter 4 Section 2 and the Periodic Foldable to complete this worksheet.

1. List the atomic numbers of the elements in Period 2.

\_\_\_\_\_

2. List the symbols of the elements in Period 2.

\_\_\_\_\_

3. Name the elements in Period 2 that are metals. \_\_\_\_\_

4. Name the elements in Period 2 that are nonmetals. \_\_\_\_\_

5. Which element in period 2 has the least mass? \_\_\_\_\_

6. Which element in period 2 has the most mass? \_\_\_\_\_

7. To which group/family does each of these belong?

A. Sulfur \_\_\_\_\_ B. Sodium \_\_\_\_\_

C. Argon \_\_\_\_\_ D. Silicon \_\_\_\_\_

E. Chlorine \_\_\_\_\_ F. Phosphorus \_\_\_\_\_

8. The symbol for Iron in Fe. Find iron on the periodic table.

A. What is the atomic number of iron? \_\_\_\_\_

B. To which period does iron belong? \_\_\_\_\_

C. To which group does iron belong? \_\_\_\_\_

Name the elements that have many properties like iron. \_\_\_\_\_

\_\_\_\_\_

### Using the Periodic Table

Fill in the chart below. The first row has been completed as an example.

| Element | Symbol | Atomic Number | Period | Group |
|---------|--------|---------------|--------|-------|
| Sodium  | Na     | 11            | 3      | 1     |
|         | O      |               |        |       |
| Krypton |        |               |        |       |
|         |        | 79            |        |       |
|         |        |               | 5      | 12    |
|         |        |               | 4      | 7     |

**Fill in the Blank: Use the word bank provided to complete the sentences.**

|          |           |        |       |            |                |
|----------|-----------|--------|-------|------------|----------------|
| nonmetal | more      | family | group | left       | periodic table |
| metal    | metalliod | period | right | properties | atomic number  |

1. The chart that lists the elements in an organized way is called the \_\_\_\_\_.
2. The periodic table lists the elements according to \_\_\_\_\_.
3. Elements in the same row across belong to the same \_\_\_\_\_.
- 4-5. Elements in the same column down belong to the same \_\_\_\_\_ or \_\_\_\_\_.
6. Elements in the same group or family share important \_\_\_\_\_.
- 7-9. An element is identified as either a \_\_\_\_\_, \_\_\_\_\_, or a \_\_\_\_\_.
- 10-11. On the periodic table, metals are located on the \_\_\_\_\_ side and nonmetals are located on the \_\_\_\_\_ side.
12. There are \_\_\_\_\_ metals than nonmetals.

**Reaching Out: Bonus Points**

1. Who created the first periodic table? \_\_\_\_\_
2. How did this Russian scientist first arrange the elements? \_\_\_\_\_
3. Who “modernized” the periodic table? \_\_\_\_\_
4. How did he rearrange the elements? \_\_\_\_\_