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

**The Periodic Table**

***Directions:*** *Use the periodic table you colored yesterday to help you with this. The key is with Mrs. King if you need to check your work.*

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

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

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

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

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

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

1. Which element in period 2 has the least mass? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Which element in period 2 has the most mass? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. To which group/family does each of these belong?
	1. Sulfur \_\_\_\_\_\_\_\_\_\_ B. Sodium \_\_\_\_\_\_\_\_\_

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

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

1. The symbol for Iron in Fe. Find iron on the periodic table.
	1. What is the atomic number of iron? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. To which period does iron belong? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. 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 locates 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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



