**Getting to Know The Periodic Table**

**Read this-**



**Use your periodic table to complete these Tasks**

1. Rows and Columns of the periodic table are called Periods and Groups.

List all periods (rows) their numbers are on the left side of the table - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List groups (columns) in order from left to right– (use the labels directly over each column). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. List the name, symbol, atomic number & atomic mass of each element in period 3.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Symbol | Atomic Mass | Atomic Number |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. List the name, symbol, atomic number & atomic mass of each element in Group 3a (13)

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Symbol | Atomic Mass | Atomic Number |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. Which group has more than one column? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Finding Elements :
3. Use the given information to fill in the missing information.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Period | Group | Elements | Symbol | Atomic Number |
| 2 | 6a |  |  |  |
| 3 | 1a |  |  |  |
|  |  | Krypton |  |  |
|  |  |  |  | 2 |
|  |  |  | Co |  |
|  |  |  | Hg |  |

1. From the elements above, \_\_\_\_\_\_\_\_\_\_\_\_\_ has the smallest mass and \_\_\_\_\_\_\_\_\_\_\_\_\_ has the greatest mass.
2. You know this because they have the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ atomic numbers.
3. Finding periods and groups: (Fill in the chart)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Period** | **Group** | **Element** | **Symbol** | **Atomic Weight** |
| 3 | 7a |  |  |  |
| 4 | 1b |  |  |  |
| 2 | 8a |  |  |  |
| 5 | 4b |  |  |  |
|  |  |  | Kr |  |
|  |  |  |  | 238 |
|  |  |  |  | 252 |

**Answer these using the symbol of each**

1. Which if the above elements are metals? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Which are non-metals? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Use element symbols to answer these:
4. Name the elements that have properties like Zinc \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Name three elements with properties like Chlorine. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Use the given words to complete these sentences:

*1869 group period 60 higher Mendelev mass*

*Einstein Russia Weight atomic number properties*

1. The periodic table was put together by a scientist named \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the year \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. He came from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The known number of elements in 1869 was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The elements are listed in order of according to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Each element is given a number called its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. An atomic number has to do with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the element.
7. An element with a larger mass would have a \_\_\_\_\_\_\_\_\_\_\_\_\_ atomic number than a lighter element.
8. Elements in the same row belong to the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Elements in the same column belong to the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Elements of the same group have many of the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. Fill in the blanks:
12. Elements in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ row are in the same period.
13. Elements that have similar properties are in the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. On the periodic table, metals are listed on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. On the periodic table non-metals are listed on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. A heavey line in the shape of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separates the metals from the non-metals on the periodic table.
17. There are more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the left than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the right.
18. When writing a chemical symbol for an element the 1st letter is always written as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the 2nd letter is always written as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Upper case/lowercase) (Upper case/lowercase)

1. Quick Research : What are 2 uses of Zr? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_