**Guided Review book 🡺Getting familiar with the Periodic table**

1. How many columns are there on the table?

2. How many rows are there on the table?

3. The elements are arranged in the order of increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Name the 3 types of elements found on the table?

5. Which of the following is not a correct symbol for an element on the periodic table? Circle and explain your answer.

1. Xe 3. MN

2. O 4. Zn

6. In general, which major group of elements would be considered malleable, ductile, have luster and are good conductors of heat and electricity?

7. In general, which major group of elements are dull, brittle and not good conductors of heat and electricity?

8. Metals are mostly what phase of matter? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 The one metal exception that is a liquid under normal conditions and is the element \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. Nonmetals can exist as \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_.

10. Give the symbols and names for 11 nonmetals that are gases.

11. Which 5 nonmetals are typically solids?

12. Which nonmetal is the only liquid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Give the symbols for the 7 semimetals (metalloids).

***14. Complete the table by filling in the missing name or symbol***.

\*\* These are the elements you must memorize by name and symbol!

|  |  |
| --- | --- |
| Element symbol | Name |
| Na |  |
|  | magnesium |
|  | hydrogen |
| He |  |
| P |  |
|  | silicon |
| K |  |
|  | calcium |
|  | boron |
|  | carbon |
| N |  |
|  | oxygen |
|  | fluorine |
| P |  |
|  | sulfur |
| Cl |  |
|  | Argon |
|  | Lithium |
| Ne |  |
| Be |  |
|  | Copper |
| Zn |  |
|  | gold |
| Ag |  |
|  | Iodine |
| Pb |  |
|  | Uranium |
| Fe |  |

15. According to **reference table S**

* Which element has the lowest melting point?
* Which element has the highest boiling point?
* Which element is the most dense?
* Which element is the largest (largest atomic radius)?