

## U2-LM1B-WorkSheet - Periodic Table

1. The law that states that the properties of the elements are periodic functions of their atomic number is \_\_\_\_\_.
2. Elements in the periodic table are arranged in order of increasing \_\_\_\_\_.
3. In the periodic table, each horizontal row is referred to as \_\_\_\_\_. On the other hand, each vertical column is called a \_\_\_\_\_ or \_\_\_\_\_.
4. In a \_\_\_\_\_ or \_\_\_\_\_ elements have similar properties.
5. The elements of Group IA in the periodic table, except hydrogen, belong to the \_\_\_\_\_ family, while the elements of Group IIA belong to the \_\_\_\_\_ family.
6. The following elements: F, Cl, Br, and I belong to the \_\_\_\_\_ family; they all exist as \_\_\_\_\_ molecules in their most stable form.
7. The elements in Group 18 (8A) are part of the \_\_\_\_\_ family.
8. The periodic table is also divided into blocks that include the metals and the non-metals. Metals exist on the \_\_\_\_\_ side of the periodic table. Nonmetals exist on the \_\_\_\_\_ side of the periodic table.
9. Except for \_\_\_\_\_ all metals are solids at room temperature.
10. The non-metal that is a liquid at room temperature is \_\_\_\_\_.
11. The nonmetal that is not a good heat insulator is \_\_\_\_\_.
12. Except for \_\_\_\_\_ nonmetals have poor electrical conductivity.
13. The elements with properties intermediate between metals and nonmetals are known as \_\_\_\_\_ or \_\_\_\_\_. Three elements of this type are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
14. Elements in the A groups are called \_\_\_\_\_ elements.
15. Elements in the B groups are known as the \_\_\_\_\_ elements.

16. Write down the name of the element represented each symbol:

Al	Au	Ar
Sn	Si	Hg
F	Fe	K
Br	B	Ba
O	P	Xe
He	Mg	Mn

17. Write down the symbol of each of the following elements:

nickel	nitrogen	lithium
silver	lead	antimony
selenium	tungsten	rubidium
strontium	neon	sodium
sulfur	zinc	arsenic

18. Under the name of each element, write its symbol:

Calcium, carbon, copper, chromium, cobalt, chlorine, cesium, cadmium

19. There are seven elements that exist in nature as diatomic molecules. Please list them here with their elemental name and in symbolic form.