

# Getting to Know the Periodic Table

(A) Fill in the blank from the words given in the box below.

In 1869, Mendeleev published his arrangement of the known elements in the “periodic table”. Just over \_\_\_\_\_ elements were arranged using details of their \_\_\_\_\_ and compounds. This table revealed \_\_\_\_\_ in the chemical properties of the elements in the same vertical column.

The elements of the periodic table are arranged in the order of \_\_\_\_\_ atomic number. The atomic number reflects the number of \_\_\_\_\_ in the nucleus of each atom.

Elements are arranged in rows of increasing atomic numbers called \_\_\_\_\_. Elements with similar properties are arranged in the same vertical column, called \_\_\_\_\_.

Metals are grouped on the left and \_\_\_\_\_ of the periodic table. Gases are positioned on the \_\_\_\_\_ of the periodic table (except hydrogen). Semiconductors are grouped between metals and non-metals and have some properties that are \_\_\_\_\_ to both types of elements.

repeating pattern	50	periods	similar	center	100	increasing
groups	properties	repeating patterns	far right	far left	protons	

(B) Answer the following questions.

- ① Which 3 elements are magnetic? \_\_\_\_\_
- ② Which 2 elements are liquid at room temperature?  
\_\_\_\_\_
- ③ Which element is used in batteries? \_\_\_\_\_
- ④ Which is a significant element found in eggs? \_\_\_\_\_

# Getting to Know the Periodic Table

## Answers

In 1869, Mendeleev published his arrangement of the known elements in the “periodic table”. Just over 100 elements were arranged using details of their protons and compounds. This table revealed repeating patterns in the chemical properties of the elements in the same vertical column.

The elements of the periodic table are arranged in the order of increasing atomic number. The atomic number reflects the number of protons in the nucleus of each atom.

Elements are arranged in rows of increasing atomic numbers called periods. Elements with similar properties are arranged in the same vertical column, called groups.

Metals are grouped on the left and center of the periodic table. Gases are positioned on the far right of the periodic table (except hydrogen). Semiconductors are grouped between metals and non-metals and have some properties that are similar to both types of elements.

repeating pattern	50	periods	similar	center	100	increasing
groups	properties	repeating patterns	far right	far left	protons	

Which 3 elements are magnetic? Iron, nickel, and cobalt

Which 2 elements are liquid at room temperature?

Mercury and bromine

Which element is used in batteries? Lithium

Which is a significant element found in eggs? Sulfur