

National Institute of Open Schooling
Secondary Course : Science And Technology
Lesson 6 : Periodic Classification of Elements
Worksheet-6

1. There are numerous elements in nature. Could you remember location of each element? If yes , how? If not, give reasons why do we need to classify these elements?
2. Name the scientists who first attempted to classify the elements found in nature. How many attempts have been taken before modern periodic table is formed?
3. “Mendeleev included noble gas elements in his periodic table.” Justify this statement
4. If a new element is discovered, using your knowledge of chemistry, explain how you would decide whether it belonged in group 2, group 4 or group 0 of the Periodic Table.
5. Why is it important to arrange the elements in the table rather than a list of elements in the Periodic Table?
6. 2 isotopes of Nitrogen are N14 and N15. How would you place both isotopes in one group or in different group. Give reasons in support of your answer.
7. “Modern periodic table is superior to Mendeleev Periodic table.” Whether you support this or not. Justify this statement.
8. Arrange the following elements in increasing order of their atomic number.
Cs, Li, Na, K, Fr, Rb
9. “The importance of atomic number as the fundamental property was realized by Henry Mosely”. Give reasons in support of this statement.
10. The elements of a period are given below in order from left to right with missing of 2 elements.

Na, Mg, Al, P, S, Cl.

Answer the following questions:

- a. Name the period which these elements belong to.
- b. Name all these two missing elements.
- c. Make correct arrangement of the elements as answer the question “a” and question “b”.
- d. Identify these elements as metal, non-metal and noble gas.