

Name: _____ Date: _____

Materials: Metals and Non-Metals

Q1. What does the 'pop' sound indicate in a reaction?

Ans. _____

Q2. What is an element? Give example.

Ans. _____

Q3. "The atom of an element remains unaffected by physical changes in the element." Explain the statement with the help of example.

Ans. _____

Q4. How are elements classified?

Ans. _____

Q5. Why are electric wire made of copper?

Ans. _____

Materials: Metals and Non-Metals

Q1. What does the 'pop' sound indicate in a reaction?

Ans. The 'pop' sound indicates the presence of hydrogen gas. Metals react with sodium hydroxide to produce hydrogen gas. Reactions of non-metals with bases are complex.

Q2. What is an element? Give example.

Ans. If a substance cannot be broken down further by chemical reactions, by cooling, heating, or by electrolysis, it is called 'element'. Sulphur is an element. So is iron. Carbon, too, is an element.

Q3. "The atom of an element remains unaffected by physical changes in the element." Explain the statement with the help of example.

Ans. The atom of an element remains unaffected by physical changes in the element. For example, an atom of liquid sulphur would be exactly the same as the atom of solid or vapour sulphur.

Q4. How are elements classified?

Ans. An important classification of elements is in terms of metals and non-metals. Most of the elements are metals. Less than 20 are non-metals. A few are metalloids which possess characters of both metals and non-metals.

Q5. Why are electric wire made of copper?

Ans. Copper metal wires are used to conduct electricity because:

- i. It is ductile and can be drawn into wires.
- ii. It is a good conductor of electricity.