

Boys' High School and College ,Prayagraj

Subject – Chemistry

Chapter – Introduction To Chemistry (CPT-1)

15th April – 15th May

Class VI

Chemistry : Meaning and Importance

The branch of science which deals with the study of materials (substances) , especially about their composition , methods of preparation , properties and their reactions with other substances , is called chemistry .

Development of Chemistry

1. Water and air were probably the very first chemicals man used for his existence .
2. With the knowledge of making fire , man's knowledge regarding metals developed . He needed metals to cook food and this lead to the discovery of metals .
3. He also made weapons from metals . Glass , which is used by us in numerous things , was first made in Egypt in around 3000 BCE by using sand , soda and lime .

Notable Chemists and Scientists and their contribution

A person who studies and gains specialisation in Chemistry is called a **Chemist** .

Some Eminent Chemists

1. Rutherford discovered Nitrogen
2. Joseph Priestley discovered Oxygen and Ammonia .
3. Cavendish prepared Hydrogen gas .
4. Lavoisier found that Sulphur is an element .
5. John Dalton gave the Atomic theory .

Importance of Chemistry

Chemistry plays an important role in every day –life and helps to fulfil man's basic needs .

Some major fields in which Chemistry has contributed are –

1. **Food and Chemistry** : Timely spraying of insecticides and pesticides saves the crop .
2. **Cosmetics and Chemistry** : Cosmetics used by us are chemical compounds .

3. **Clothing and Chemistry** : Development of various clothing (textile) industries has been possible due to Chemistry only .
4. **Chemicals as Medicines** : Medicines consumed by us are chemical compounds .
5. **Chemicals in Industries** : Example – Paints and pigments , plastics

Worksheet 1

Note - To be done in an interleaf notebook

Chapter – Introduction To Chemistry

A. Fill in the blanks with suitable words :

1. A person who gains specialisation in chemistry is called a **Chemist**.
2. Medicines consumed by us are **chemical** compounds .
3. Pigments like malachite green is a compound of **copper** .
4. Oxygen was discovered by **Joseph Priestley** .
5. **Aluminium** is used in numerous household appliances .

B. Write True or False for the following statements :

1. Carbon dioxide was discovered in 1630. **True**
2. Chemistry has solved most of the problems facing mankind . **True**
3. The material of which a physical body is made up of is called a substance . **True**
4. At the turn of nineteenth century , modern atomic theory was established . **True**
5. Dyes are used in steel industries . **False**

C. Answer the following questions :

1. Who is called a chemist ? Name some .

Ans. A person who studies and gains specialisation in chemistry is called a chemist .

Some chemists are Rutherford , Joseph Priestley and Cavendish .

2. What is the historical perspective of chemistry in early age ?

Ans. In the early age , need of a man led to the discoveries . Water and air were probably the very first chemicals man used for his existence . He needed vessels to cook food which led to the discovery of metals .

3. In which fields chemistry has contributed ?

Ans. Chemistry has contributed in the fields of –

1. Food
2. Cosmetics
3. Clothing
4. Medicines
5. Industries (example- paints and pigments , plastics)

Worksheet 2

Note : Exercises to be done in notebook

A. Answer the following questions :

- 1. What is Chemistry and what is its importance ?**
- 2. Write a few names of discoverers .**
- 3. What is a substance ?**

B. Fill in the blanks :

- 1. and were probably the very first chemicals man used for his existence .**
- 2. A performs experiments with materials under various conditions .**
- 3. Cavendish prepared gas .**
- 4. was the first polymer developed in lab .**
- 5. Dyes used in textile industry are a product of Chemistry .**

C. Write True or False for the following statements :

- 1. Van Helmont gave the Atomic theory .**

2. Clothing materials like Nylon , Rayon , etc are synthetic fibres developed from chemicals .
3. At the turn of nineteenth century , modern atomic theory was established .
4. Cavendish found that Sulphur is an element .
5. A person who studies and gains specialisation in chemistry is called a Chemist .

D. Match the following :

Column A

1. Textile industry
2. Food and agriculture industry
3. Medicines
4. Steel industry
5. Carbon dioxide

Column B

- a. CO₂
- b. Insecticides and pesticides
- c. SAIL
- d. Nylon and Rayon
- e. Bio-chemistry
