

Importance of Chemistry:

1. Food and agriculture: Chemistry has helped farmers by providing them with agro-chemicals like fertilisers, pesticides, insecticides, Fungicides and preservatives.

➤ Agro Fertilisers: They are the chemicals which provide essential nutrients to crops and thus increases the yield. Some of the important fertilisers are Urea, Sodium nitrate, potash, ammonium phosphate and calcium nitrate etc.

➤ Pesticides: They are the chemicals to kill the pests. Malathion, parathion and aldrin etc. are some of the pesticides.

➤ Insecticides: Insecticides like D.D.T and B.M.C are used to kill the insects.

➤ Fungicides: These are the chemical that protect crops from the fungus. Examples of fungicides are Bordeaux mixture and sulphur.

1. **Preservatives:** These are used to preserve the food for a chemical longer time, sodium benzoate, sodium meta-bisulphate are well known preservatives.
2. **Food processing and processed food:** Food processing is the transformation of the raw food materials by physical and chemical means into the marketable food products that can be served to the consumers. Examples - Bread, Jams, Jelly etc.
3. **Minerals and petroleum:** Knowledge gained through chemistry helps in the extraction of metals from their ores. Petroleum products like petrol, diesel and wax etc, are separated from the crude oil with the help of chemical techniques.
4. **Industry:** The knowledge of chemistry enabled us to improve the efficiency of industrial processes to produce a large number of consumer products like dyes, paints, plastics, textiles, soap and detergents.

5. Medicines: Extensive researches by chemists have led to the discovery of a number of medicinal drugs. Examples: aspirin, paracetamol, antibiotics like penicillin, antiseptics etc, to kill germs and cure diseases.