



G D GOENKA PUBLIC SCHOOL

Subject: Ev.Sc./ 5TH

Aspect: Tutorial

Dated:(Friday 20th August 2021)

Lesson no.: 10. Pollution

Learning Objective: Students will learn about the effects of air pollution and measures taken to minimize air pollution.

Skills: Development of Environmental Sensitivity.

Presentation:

Effects of Air Pollution

The hazardous effects of air pollution on the environment include:

Diseases

Air pollution has resulted in several respiratory disorders and heart diseases among humans. The cases of lung cancer have increased in the last few decades. Children living near polluted areas are more prone to pneumonia and asthma. Many people die every year due to the direct or indirect effects of air pollution.

Global Warming

Due to the emission of greenhouse gases, there is an imbalance in the gaseous composition of the air. This has led to an increase in the temperature of the earth. This increase in earth's temperature is known as global warming. This has resulted in the melting of glaciers and an increase in sea levels. Many areas are submerged underwater.

Acid Rain

The burning of fossil fuels releases harmful gases such as ***nitrogen oxides*** and ***sulphur oxides*** in the air. The water droplets combine with these pollutants, become acidic and fall as acid rain which damages human, animal and plant life.

Ozone Layer Depletion

Ozone layer is a protective layer in the atmosphere. It protects the earth's inhabitants from the harmful UV rays of the sun which if not blocked may cause skin cancer. The release of chlorofluorocarbons and hydro chlorofluorocarbons in the atmosphere is the major cause of depletion of the ozone layer. The depleting ozone layer does not prevent the harmful ultraviolet rays coming from the sun and causes skin diseases and eye problems among individuals.

Measures to control air pollution

- Use of fossil fuels should be minimized.
- Renewable sources of energy like solar energy, wind energy and hydroelectric energy should be used.
- Use of cleaner fuels like CNG (compressed natural gas) in vehicles.
- Planting more trees.
- Car pooling should be encouraged.

Homework:

Q 1. Acid rains have damaging effects on many ancient monuments. Can you find out which world famous monument in India is adversely affected by acid rain? And what steps are being taken by the government to protect that monument.