

(A community initiative of Harchan Foundation Trust)

CHAPTER -6 ENVIRONMENT



This project is aimed at supporting children with different needs. Information provided is adapted to the best of knowledge by the volunteers. For complete information please refer to the NIOS resources in https://www.nios.ac.in/online-course-material/secondary-courses.aspx.

K - What does the child KNOW	W - What does the child WANT to know	L - What has the child LEARNT
	Pollution and pollutant	
	Types of pollution	
	Effects of pollution on environment and health	
	Measures for controlling pollution	
	Process of waste disposal	



KEYWORDS and MEANINGS

KEYWORD	MEANING
Combustion	The act or process of burning.
Sewage	Type of waste water produced by people.
Solvents	A liquid used for dissolving other substance.
Silencers	A device used to reduce the sound.
Smog	Pollutant which is combination of smoke and dust in air



Pollution and pollutant

■Pollution

Addition of any substance to environment in excess which is harmful



Pollutant

Substance which causes pollution





Categorization / Types of pollution

1. Air pollution - Imbalance in oxygen and carbon dioxide in air



2. Water pollution-Not suitable for drinking.



3. Soil pollution -Presence of chemicals.



4. Noise pollution -Unpleasant sound around.







Spray paints

Natural

Volcanoes, **Forest Fires**



and fumes

Solvents

Sources of air pollution

Combustion



Smoke



Pesticides & Insecticides

Agricultural

Industrial



Smoke, poisonous gas



Effects of Air Pollution



Human Beings

- Eye infections
- Respiratory tract infections.
- Skin Allergies



Decrease in food production



Environment

- ■Poor visibility.
- Rise inTemperature
- Destruction of vegetation











Ways to control air pollution

>Use smokeless Chulha.





➤ Use of Solar cooker





Factories should have chimney filter.



Factories should be away from residential area.



Ways to control air pollution

- ➤ Vehicles should be fitted with special devices .
- ➤ Use unleaded petrol and CNG for transport

- ➤ Garbage should not be burnt, disposed through sanitary landfills
- > Pucca roads to avoid dust in air .
- ➤ Planting trees.
- Crops should be grown throughout to avoid erosion









Water pollution

We say water is polluted when:

- ✓ It is colored.
- **✓** Have suspended particles
- **✓ With Foul smell and bad taste**





Sources of water pollution

Domestic wastes

- Bathing animals and washing clothes in harvested water
- Washing self after defecation in harvested water.
- Disposal of garbage in water

Industrial waste

- Waste material which comes from factories.
- Harmful and toxic substance flows to river, ponds and sea.













Sources of water pollution

Agricultural waste Chemical fertilizers, pesticides



- **❖**Oil Spills
- Oil spills from oil tanker.
- Spills over large area of sea





Effects of water pollution

Water pollution can Cause:

- Diseases like cholera, typhoid, diarrhea and dysentery
- Bathing in polluted water causes skin diseases and allergies
- Polluted water affects plants and animals



Ways to control water pollution

Sewage water should not be thrown into water sources



Industries should not be allowed to throw their waste to water source.



Stop open defecation.



Dumping pits should be away from source of water.





Ways to control water pollution

- *Banning of bathing & washing clothes in harvested water sources.
- ❖ Don't use sea and river to dispose garbage.
- Ponds should have concrete or parapet wall & firm flooring
- Drinking water should be kept covered.
- Never dip your hand in drinking water, use ladle.











Soil pollution

Soil pollution is defined as

Change in physical, chemical and biological nature of soil Which has harmful effect on human beings



Effects Of Soil Pollution

Improper disposal of domestic waste

Spread of germs

Walking in bare foot

Germs enter into our body and cause diseases

Industrial & agricultural wastes

Plants & vegetables absorb

Animals & humans consume plants fall ill



How soil gets polluted

- Waste from factories.
- Insecticides , Pesticides , and Fertilizer
- Open defecation and urination
- Spitting











Ways to control soil pollution

- Dumping outside the city limits
- **➤**Use of sanitary latrines

Landfills outside the city

Limited use of insecticides and pesticides

Composting garden waste

➤Use of environment friendly products

Stop burning of garden waste

➤ Buy only eco marked goods

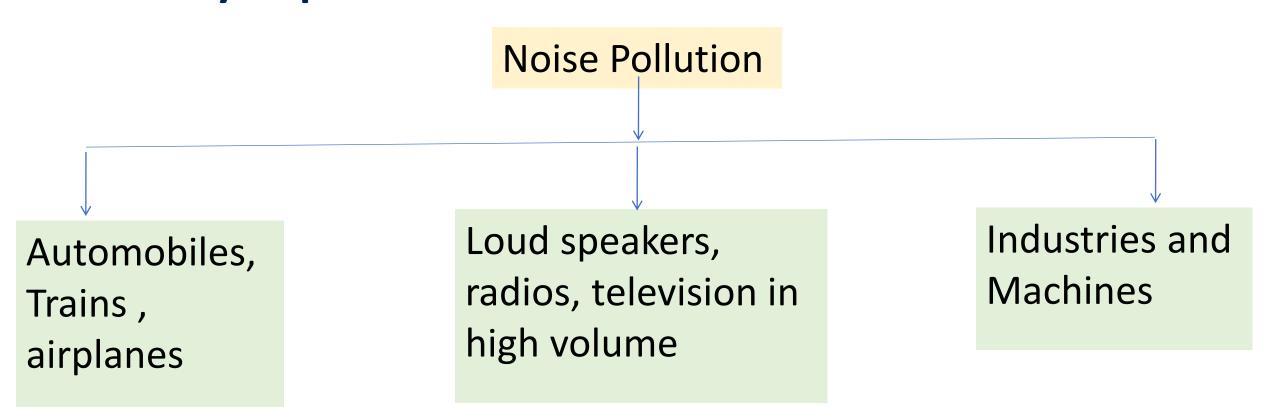
Incineration(burning garbage in special furnace)





Noise pollution and its source

Any unpleasant sound is called Noise





Effect of noise pollution

Disturbs us.

➤ Strain our nerves.

➤ Headache

➤ Mental disturbance

>Stress

➤ Mental irritability

➤ Affect hearing ability



Ways to control noise pollution



Jse low volume in radio and TV



Get silencers fitted to engine of vehicle



Avoid the use of loud speakers



Airport away from city



Use vehicle horns only when it is necessary



Factories away from residential area

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