

# POLLUTION AND ENVIRONMENTAL PROTECTION

EDCI 337

We need a better world.





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## Air Pollution

Air pollution is contamination of the indoor or outdoor environment by any chemical, physical or biological agent that modifies the natural characteristics of the atmosphere.

## AIR POLLUTION CAUSES

Household combustion devices, motor vehicles, industrial facilities and forest fires are common sources of air pollution. Pollutants of major public health concern include particulate matter, carbon monoxide, ozone, nitrogen dioxide and sulfur dioxide.

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## AIR POLLUTION

# EFFECTS

### **Effect 001**

Long-term health effects from air pollution include heart disease, lung cancer, and respiratory diseases such as emphysema. Air pollution can also cause long-term damage to people's nerves, brain, kidneys, liver, and other organs. Some scientists suspect air pollutants cause birth defects

### **Effect 002**

Air pollution can damage crops and trees in a variety of ways. Ground-level ozone can lead to reductions in agricultural crop and commercial forest yields, reduced growth and survivability of tree seedlings, and increased plant susceptibility to disease, pests and other environmental stresses (such as harsh weather).

An underwater photograph showing a large amount of plastic waste, including bags and bottles, floating in the water. Several small, striped fish are swimming around the debris. The water is a deep blue color.

POLLUTION 2

# WATER POLLUTION

The contamination of water sources by substances which make the water unusable for drinking, cooking, cleaning, swimming, and other activities.

# ***MAIN CAUSES OF WATER POLLUTION***

- Deforestation
- Industry, agriculture and livestock farming
- Rubbish and faecal water dumping
- Fuel spillages
- Maritime traffic



# ***EFFECTS OF WATER POLLUTION***

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About 2 billion people have no option but to drink water contaminated by excrement, exposing them to diseases such as cholera, hepatitis A and dysentery.

### **EFFECT 1**

Destruction of biodiversity.

### **EFFECT 2**

Lack of potable water.

### **EFFECT 3**

Disease and infant mortality.

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## WAYS TO PREVENT WATER POLLUTION



# HOW TO PREVENT

- 1) Pick up litter and throw it away in a garbage can.
- 2) Blow or sweep fertilizer back onto the grass if it gets onto paved areas.
- 3) Wash your car or outdoor equipment where it can flow to a gravel or grassy area instead of a street.
- 4) Don't pour your motor oil down the storm drain. Take it to the nearest auto parts store.





# SOIL POLLUTION

# SOIL POLLUTION CAUSES

Human activities are the primary cause of soil pollution and land degradation, such as:

- Industrial waste
- Deforestation
- Excessive use of fertilisers and pesticides
- Garbage pollution

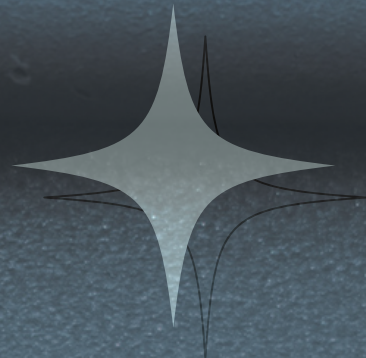


# Soil Pollution Effects

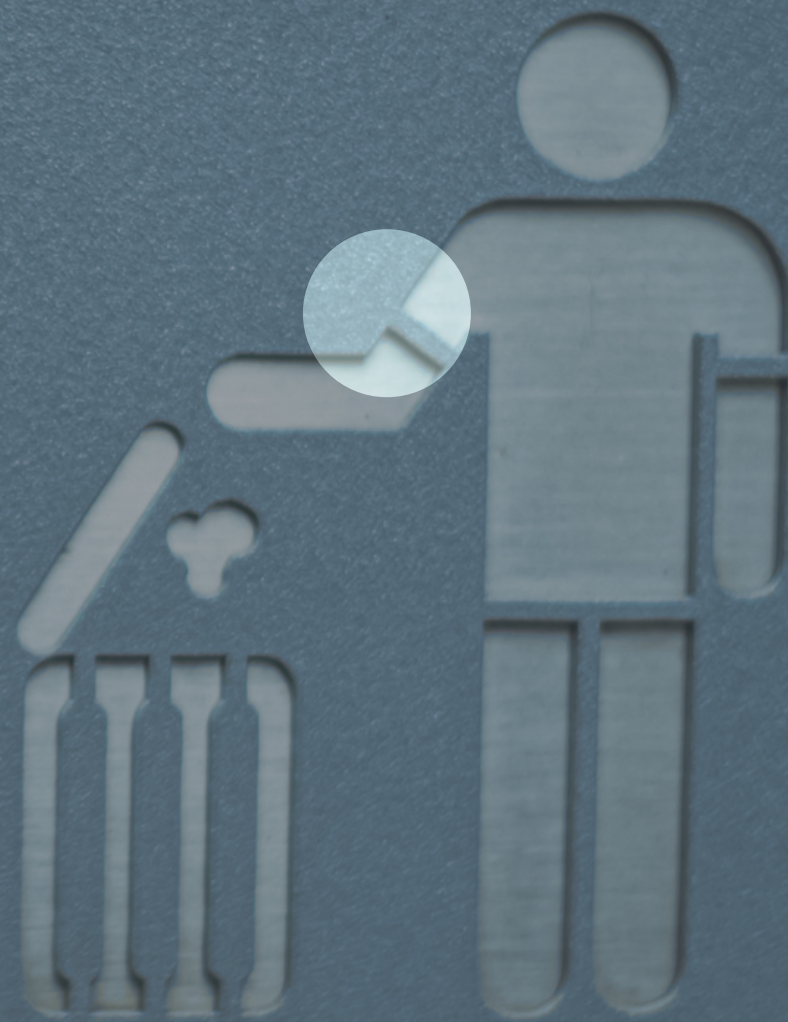
## SOIL POLLUTION

may cause a variety of health problems, starting with headaches, nausea, fatigue, skin rash, eye irritation and potentially resulting in more serious conditions like neuromuscular blockage, kidney and liver damage and various forms of cancer.





# WAYS TO PREVENT SOIL POLLUTION



- USE OF PESTICIDES SHOULD BE MINIMIZED.
- USE OF FERTILIZERS SHOULD BE JUDICIOUS.
- CROPPING TECHNIQUES SHOULD BE IMPROVED TO PREVENT GROWTH OF WEEDS.
- SPECIAL PITS SHOULD BE SELECTED FOR DUMPING WASTES.
- CONTROLLED GRAZING AND FOREST MANAGEMENT.
- WIND BREAKS AND WIND SHIELD IN AREAS EXPOSED TO WIND EROSION.
- PLANNING OF SOIL BINDING GRASSES ALONG BANKS AND SLOPES PRONE TO RAPID EROSION.

**THE EARTH IS WHAT WE ALL HAVE IN COMMON.**