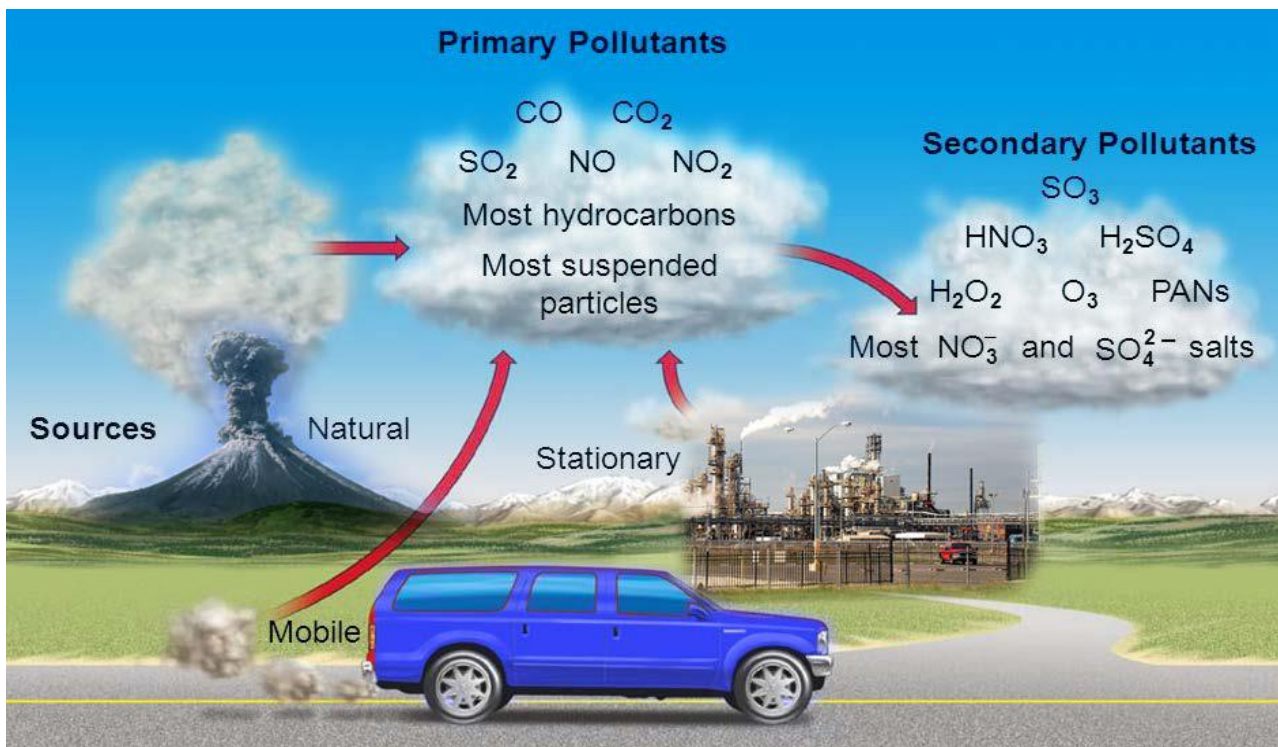


Environmental pollution

Pollution: The disturbance of dynamic equilibrium due to excessive introduction of containment leads to the development of pollution. It may affect the environment in different forms such as noise, heat, light or chemical substances. The major forms of pollution are as follows:

Air Pollution:

The release of chemicals and particulate matter into the environment to disturb air quality. The major pollutant belongs to carbon monoxide, sulfur dioxide, chlorofluorocarbons and nitrogen oxides. The major source of these gaseous are motor vehicles and industrial waste. In addition, reaction of hydrocarbon with sunlight to generate photochemical ozone and smog. Particulate matter or fine dust present in air contributes into the air pollution.



An Over-view of Air Pollution

Soil Pollution:

The flow of chemicals from contaminated water reservoir such as river or lake, as well as from rain water leads to the spreading of chemicals on the soil. It leads to the contamination of soil with hydrocarbons, heavy metals, pesticides, herbicides and chlorinated hydrocarbons.

Radioactive Pollution:

With the evident advancement in the atomic physics, nuclear power plants are established to produce energy and electricity. These activities generate large quantity of radioactive waste in the environment and contaminate air, water and soil.

Thermal Pollution:

The release of energy from nuclear power plant into the natural water bodies leads to the change in temperature of water. In addition, accumulation of greenhouse gases into the environment causes trapping of solar energy into the atmosphere and ultimate raise in temperature of earth.

Noise Pollution:

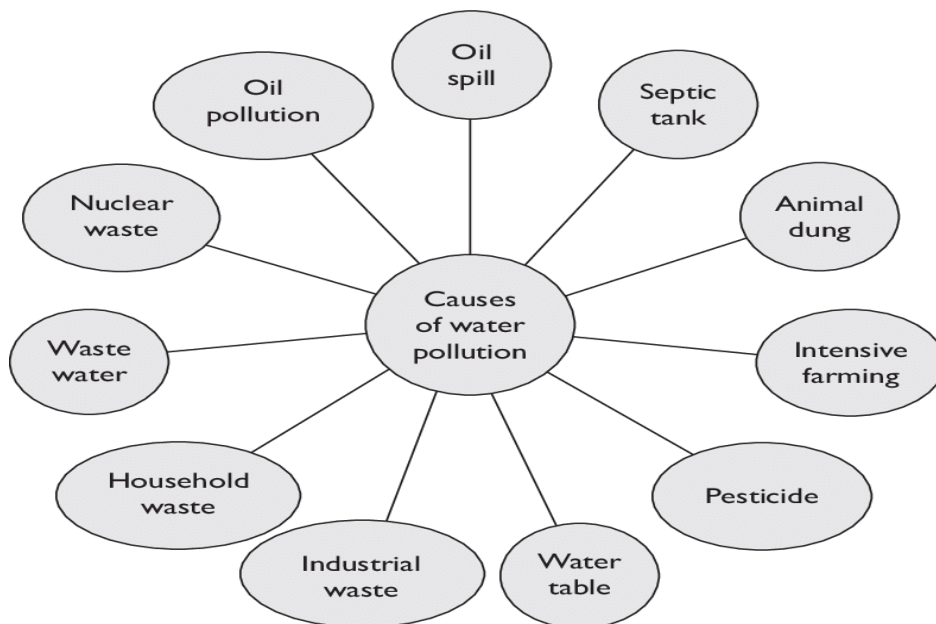
The main source of noise pollution is the contribution of sound from vehicles, aircraft noise, loud speaker, industrial machines and other source of sound. High noise can cause the development of cardiovascular effects such as rise in blood pressure, stress and vasoconstriction, and other coronary complications.



An over-view of Noise Pollution

Water Pollution:

The contamination of water from commercial and industrial waste causes water pollution. In addition, discharge of untreated domestic waste, sewage and chemical contaminants such as chlorine. The runaway of chemicals from agricultural lands contains chemical fertilizers and pesticides into the river, lake also causes water pollution.

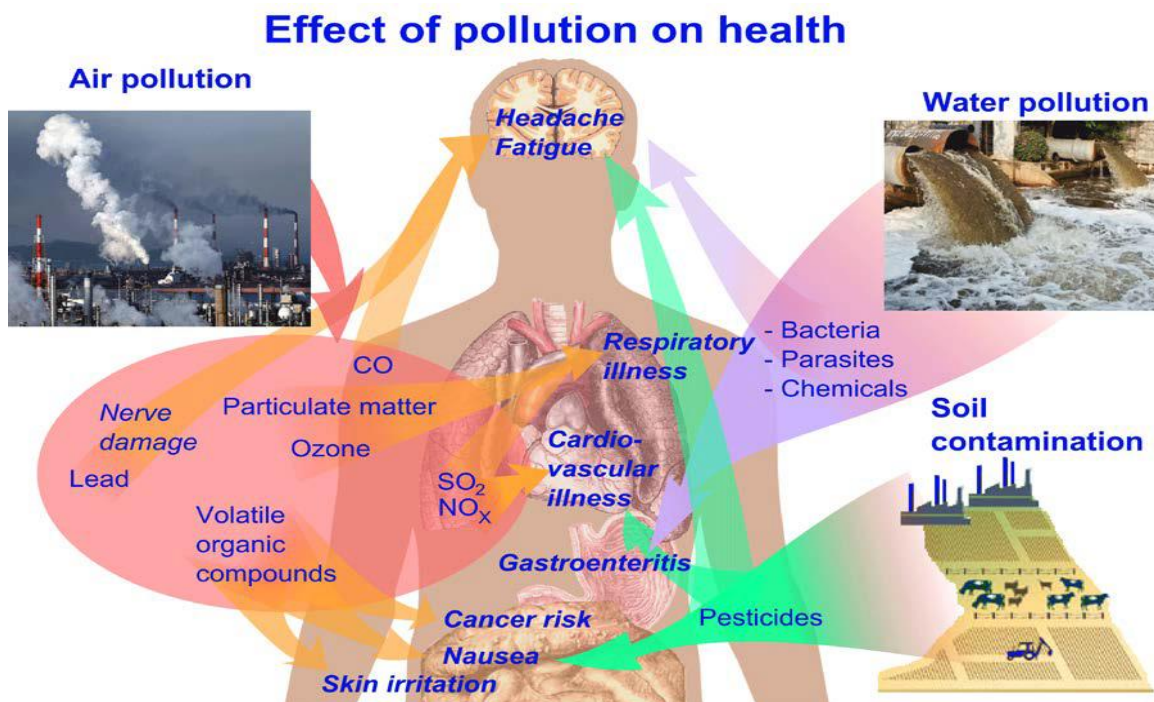


An Over-view of Water Pollution

Effect of pollution on human health:

Different forms of pollution effect the human health either directly or indirectly. Few of the selected effects on human health are given in Figure 40.4. These effects are as follows:

- 1-Depletion of ozone can cause skin cancer due to exposure of harmful ultraviolet radiation.
2. Ozone pollution can cause cardiovascular complications, throat inflammation, chest pain and congestion.
3. Water pollution causes death in developing countries due to consumption of contaminated water. It is the major cause of spreading water borne diseases in human society.
4. Oil spilage can cause skin complications and rashes.
5. Noise pollution causes hearing loss, cardiovascular complications and sleep disorders.
6. Air pollution affects the older people due to its effect on lung and heart. Air pollution can cause development of asthma in children and infants. Lead, heavy metals and suspended particles in air cause neurological and developmental complications.
7. Radioactive and chemical pollution causes several types of cancer and birth defects.



Effect of Pollution on human health.