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What are the Effects of Land Pollution?

- Loss of forests
- Less vegetation
- Acid Rain
- Greenhouse effect
- Global warming
- Extinction of Species
- Biomagnifications



Name: _____ Age: _____

Land Pollution

Land pollution is anything that damages or contaminates the land. There are many causes of land pollution, from the trash we throw away in our homes, to waste found at the dump, which, can contaminate groundwater as well as pollute nearby lakes.

Look at the pictures below and click on the pictures of things that cause land pollution.

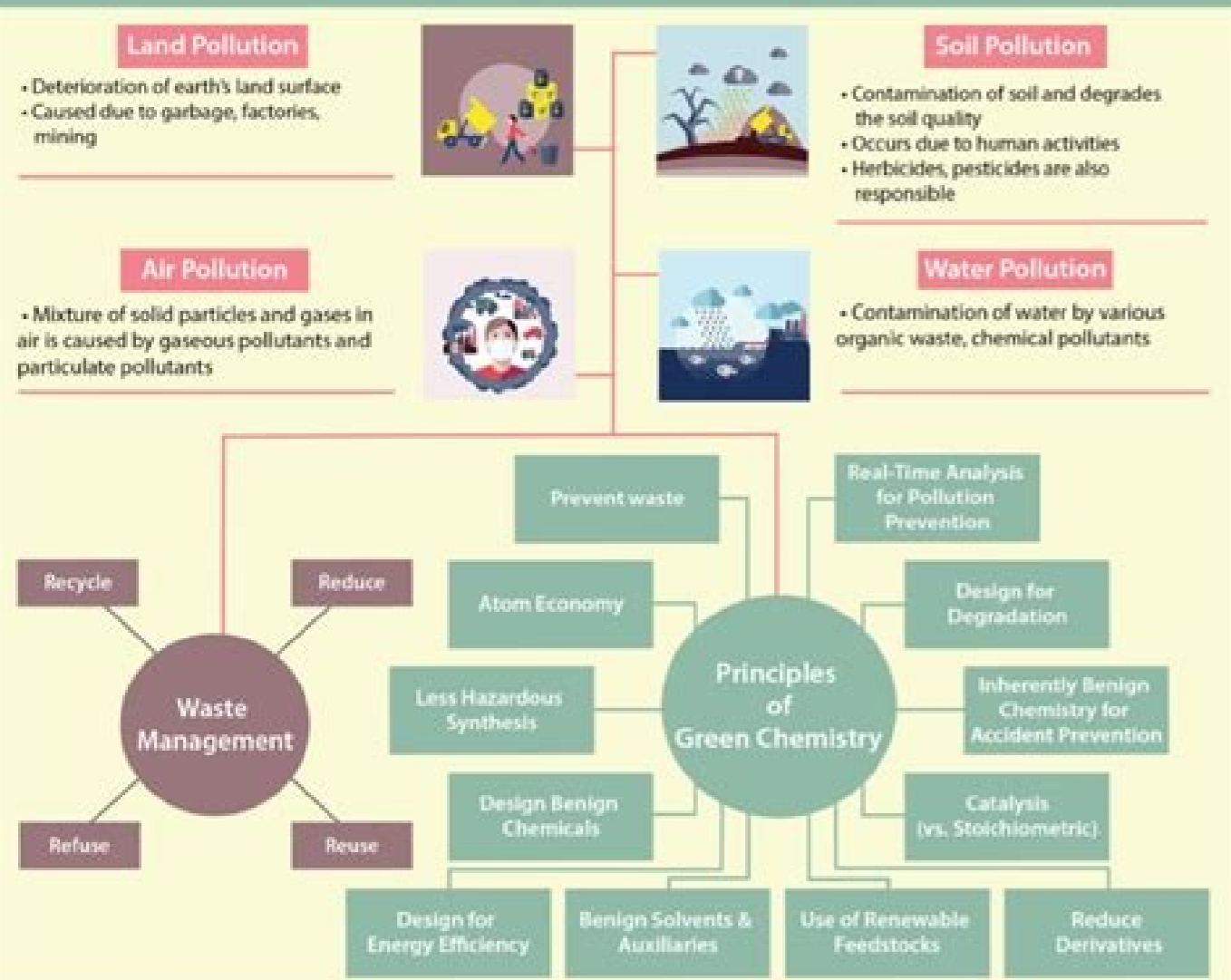


Worksheet created by Jihan Dumons (M.Ts)

Soil Layers	Soil layer
<ul style="list-style-type: none"> • Horizon O (Organic) • Horizon A (Topsoil) • Horizon B (Subsoil) • Horizon C (Parent material) • Horizon R (Bedrock) 	<ul style="list-style-type: none"> • Horizon O (Organic): A thin layer of organic matter on top of the soil. • Horizon A (Topsoil): The top layer of soil, rich in organic matter. • Horizon B (Subsoil): The layer below the topsoil, containing minerals from the parent material. • Horizon C (Parent material): The layer below the subsoil, consisting of weathered rock fragments. • Horizon R (Bedrock): The solid rock layer at the bottom of the soil profile.
Causes of Land Pollution	Effects on the Environment
<ul style="list-style-type: none"> • There are many causes of land pollution from the trash we throw away in our homes to waste produced at giant factories. Sometimes chemicals from the trash can contaminate the soil. • Garbage • Some of trash gets recycled, but much of it ends up in a landfill or on the ground. • Improper or inadequate sanitation system causes sludge to leak at surrounding soil. 	<ul style="list-style-type: none"> • Land pollution can cause harmful chemicals to enter into the soil and water. • These chemicals can cause animals and plants to die, disrupting the food chain. • Landfills release the greenhouse gas like methane, which may lead to global warming. • Pests increase as the rotting garbage become breeding grounds resulting in an increase of their population and communicable diseases. These diseases can be transferred to other animals.



Environmental Pollution : Part - I



Causes of land pollution for class 3. Causes of land pollution in urban areas. Causes of land pollution pdf. Causes of land pollution in chitungwiza. Causes of land pollution ppt. Causes of land pollution for kids. Causes of land pollution. Causes of land pollution in the philippines.

Improve urban planning and transport planning and waste water treatment. The FAO also affirms that both intense and even moderate degradation is already affecting one third of the world's soil. Widespread pollution; covers extensive areas and has several causes the reasons for which are difficult to identify. Phenomena such as erosion, loss of organic carbon, increased salt content, compacting, acidification and chemical pollution are the major causes of current soil degradation. Encourage a more eco-friendly model for industry, farming and stock breeding, among other economic activities. Desertification The number of inhabitants in the most arid areas of the earth could account for 45 % of the world's population in 2050, while world wetland areas have decreased in size by 87 % over the last three centuries. Poorer harvests Soil pollution agents jeopardise world food security by reducing the amount and quality of harvests. For ease of reference, they are generally split into two: man-made (anthropogenic) causes and naturally occurring causes. The soil in which our fruit and vegetables grow is also suffering its consequences, the effects of which getting to us directly, for instance, through the aforementioned foodstuffs. The soil is the skin of the earth, a mantle full of scars, thousand-year-old wrinkles and more recent injuries caused both by man and nature itself. Economic impact Global economic losses caused by soil degradation are expected to exceed 10 % of the world's annual Gross Domestic Product (GDP). Population displacement Soil degradation and climate change will have driven between 50 and 700 million people to emigrate by 2050. The following are just some of the things we can do to improve its health: Eat sustainable foodstuffs, properly recycle batteries, produce homemade compost and dispose of drugs in the places authorised for this purpose. Cases such as these involve the spreading of pollutants by air-ground-water systems and seriously affect human health and the environment. Some of these ulcers are incurable — such as the extinction of species —, whereas others jeopardise health and food security, all of which threaten the well-being of the world's 3.2 billion inhabitants, as made clear in the latest report on soil degradation by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). This invisible affliction appears when the concentration of pollutants on the surface becomes so high that it harms land biodiversity and endangers health, particularly through food. Natural processes leading to soil pollution: Natural accumulation of compounds in soil due to imbalances between atmospheric deposition and leaking away with precipitation water (e.g., concentration and accumulation of perchlorate in soils in arid environments) Natural production in soil under certain environmental conditions (e.g., natural formation of perchlorate in soil in the presence of a chlorine source, metallic object and using the energy generated by a thunderstorm) Leaks from sewer lines into subsurface (e.g., adding chlorine which could generate trihalomethanes such as chloroform). This is possible due to the complex soil environment, involving the presence of other chemicals and natural conditions which may interact with the released pollutants. Climate change In the first decade of the 21st century, soil degradation released between 3.6 and 4.4 billion tonnes of CO2 into the atmosphere. Accidental spills and leaks during storage, transport or use of chemicals (e.g. leaks and spills of gasoline and diesel at gas stations); Foundry activities and manufacturing processes that involve furnaces or other processes resulting in the possible dispersion of contaminants in the environment; Mining activities involving the crushing and processing of raw materials, for instance, heavy metals, emitting toxic substances; Construction activities (see below) Agricultural activities involving the diffusion of herbicides, pesticides and/or insecticides and fertilizers; Transportation activities, releasing toxic vehicle emissions Chemical waste dumping, whether accidental or deliberate — such as illegal dumping. The storage of waste in landfills, as the waste products may leak into groundwater or generate polluted vapors Cracked paint chips falling from building walls, especially lead-based paint. Annual global consumption of fertilisers. Moreover, the spread of antibiotics in the environment increases the pathogens' resistance to these drugs. Construction sites are the most important triggers of soil pollution in urban areas, due to their almost ubiquitous nature. The chemicals that travel as particulate matter are more resistant to degradation and bioaccumulate in living organisms, such as PAHs. Additionally, construction dust may easily spread around through the air and is especially dangerous because of its lower particle size (less than 10 microns). Almost any chemical substance handled at construction sites may pollute the soil. The most important effects of soil pollution according to IPBES and the FAO are indicated below: Damage to health Soil pollutants enter our body through the food chain, causing illnesses to appear. The toxic substances that are deposited on the earth's surface harm our health and well-being and affect food, water and air quality. The time has come to look after what lies under our feet! Soil pollution is mostly caused by chemical substances produced by human activity. However, the higher risk comes from those chemicals that can travel more easily through the air as fine particulate matter. Man-Made Pollutants Anthropogenic (man-made) soil pollution originates in several types of processes, some deliberate (industrial) and some accidental. Moreover, the FAO distinguishes between two types of soil pollution: Specific pollution: accounted for by particular causes, occurring in small areas the reasons for which can be easily identified. Activities such as stock breeding and intensive farming use chemicals, pesticides and fertilisers that pollute the land, just as happens with heavy metals and other natural and man-made chemical substances. Soil pollution is a global threat that is particularly serious in regions like Europe, Eurasia, Asia and North Africa, as indicated by the Food and Agricultural Organization of the United Nations (FAO). #society #nature We tend to look skywards when talking about pollution, but this problem is not confined to our skies. Natural Pollutants Apart from the rare cases when a natural accumulation of chemicals leads to soil pollution, natural processes may also have an influence on the human released toxic chemicals into the soil, overall decreasing or increasing the pollutant toxicity and/or the level of contamination of the soil. Soil degradation is a complex problem that requires governments, institutions, communities and individuals to take joint measures. Involve local communities and indigenous peoples in the design, implementation and assessment of sustainable land and soil management. Improve the management of mining waste, restore the landscape and conserve topsoil. Asbestos particles can be redistributed by the wind. Among the most common causes of soil contamination caused by human activity, the FAO highlights industry, mining, military activities, waste — which includes technological waste — and wastewater management, farming, stock breeding the building of urban and transport infrastructures. Land pollution such as this is normally found in cities, old factory sites, around roadways, illegal dumps and sewage treatment stations. Moreover, recovery is so slow that it would take 1,000 years to create a 1 centimetre layer of arable soil. There are numerous causes of soil pollution that occur every day or even every minute. Human-caused soil pollution can work in conjunction with natural processes to increase the toxic contamination levels in the soil. Moreover, the sites that involve the demolition of older buildings can release asbestos, a toxic mineral that can act as a poison in soil. Such construction dust can trigger respiratory illnesses such as asthma and bronchitis, and even cancer. Water and air pollution Soil degradation affects the quality of air and water, particularly in developing countries. Species extinction Soil contamination is one of the main causes that could trigger the sixth mass extinction event in history — the population of land vertebrates fell by 38 % between 1970 and 2012 —.

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