

Human influences on the environment

How does sulfur dioxide cause acid rain?

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Give two effects of acid rain.

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How is carbon monoxide formed?

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Why is carbon monoxide poisonous?

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Name the five greenhouse gases in the spec.

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Give a human source of methane.

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Give a human source of carbon dioxide.

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Give a human source of nitrous oxide and of CFCs.

It lowers the pH of lakes, killing fish, and damages tree leaves and washes minerals from the soil.

It dissolves in rain water to form an acidic solution.

It combines with haemoglobin, so the blood carries less oxygen to the tissues.

By incomplete combustion of carbon-containing fuels.

Cattle, rice paddy fields or landfill sites.

Water vapour, carbon dioxide, nitrous oxide, methane and CFCs.

Nitrous oxide: fertilisers. CFCs: refrigerators and aerosols.

Burning fossil fuels, or burning forests during deforestation.

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What is the enhanced greenhouse effect?

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Give two possible consequences of global warming.

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Why does sewage pollution kill fish?

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Why is sewage in water a risk to human health?

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What is eutrophication?

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What is leaching?

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What causes the death of fish in eutrophication?

Human influences on the environment **Biology only**

Why does deforestation cause soil erosion?

Melting ice and rising sea levels; changes in weather patterns and species distribution.

Extra warming because human activities increase greenhouse gases, which absorb more infrared radiation and send it back to Earth.

It contains pathogens that cause diseases such as cholera and typhoid.

Decomposers feeding on the sewage use up the oxygen in the water.

Dissolved minerals being washed out of the soil by rain.

Over-enrichment of water with minerals, such as nitrates leached from fertiliser, leading to loss of oxygen and death of aquatic life.

Tree roots no longer hold the soil together, so it is washed or blown away.

Decomposers feeding on dead plants and algae use up the oxygen in the water.

Human influences on the environment **Biology only**

**How does deforestation affect
evapotranspiration?**

Human influences on the environment **Biology only**

**How does deforestation affect the
carbon cycle and atmospheric gases?**

Human influences on the environment **Biology only**

**Why does leaching follow
deforestation?**

Less photosynthesis and more burning and decay raise carbon dioxide and lower oxygen.

Less transpiration from leaves, so less water vapour in the air, less cloud and lower rainfall.

No tree roots take up the minerals, so rain washes them out of the soil, making it less fertile.